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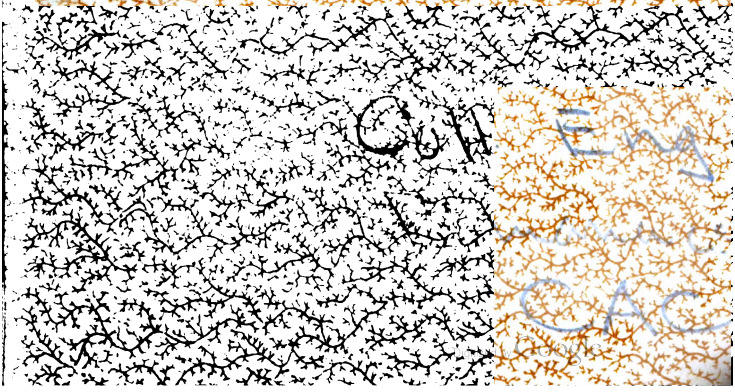
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THE
Gentleman's Diary,

OR THE
MATHEMATICAL REPOSITORY;
An ALMANACK

For the YEAR of our LORD 1792:

BEING
BISSEXTILE OR LEAP YEAR.

Containing many useful and entertaining Particulars,
peculiarly adapted to the ingenious Gentlemen engaged
in the delightful Study and Practice of the

MATHEMATICKS.

The Fifty-second ALMANACK published of this Kind;
and the Fortieth of the NEW-STYLE in ENGLAND.

————— With wise Intent
The Hand of Nature on peculiar Minds
Imprints a different Byass, and to each
Decrees its Province in the common Toil.
To some she taught the Fabrick of the Sphere,
The changeful Moon, the Circuit of the Stars,
The golden Zones of Heaven: to some she gave
To weigh the Moment of eternal Things,
Of Time, and Space, and the unbroken Chain,
And Will's quick Impulse. AKENSIDE.

L O N
Printed for the Company of STATIONERS;
And Sold by ROBERT HORSFIELD, at their Hall in
LUDGATE-STREET. 1792.

[Price Ten Pence stitched.]

Two, both Solar, and both invisible in Britain.

March 24d, the Sun will be eclipsed, the conjunction at 5 h. 50 m. P. M. in longitude $2^{\circ} 49\frac{1}{2}$, Moon's latitude $3\frac{1}{2}$ N. The eclipse will be central on the meridian at 5 h. 51 $\frac{1}{2}$ in long. $87^{\circ} 52\frac{1}{2}$ W. and lat. $4^{\circ} \frac{1}{2}$ N.

September 16th in the morning the Sun will be eclipsed; the conjunction at 9 h. 18' in longitude $5^{\circ} 24' 8''$, Moon's lat. 1 min. South. It will be central on the Meridian at 9h. 18' in long. $40^{\circ} 30'$ E. and lat. $1^{\circ} \frac{1}{2}$ N.

Venus will be a Morning Star till Aug. 6th; then an Evening Star to the year's end.

Jupiter will be a Morning Star till April 15th, then an Evening Star till Nov. 3d, after that a Morning Star to the end of the year.

The Georgian Planet will be in opposition to the Sun, Feb. 5th at 11 at night, declination about $16^{\circ} 28'$ N.

Nothing at the time of writing this, has been seen or heard of the expected Comet; so that it is most likely that those of 1532, and 1661 were not the same, but different ones.

Mr. John Dalton of Kendal says, that the Sun's eclipse on the 3d of April last was observed there, lat. $54^{\circ} 20'$ N. long. near $2^{\circ} 50'$ W. The beginning at 9 h. 9 m. P. M. greatest obscuration about 1 h. 34 m, and 2 h. 53 m. duration 2 h. 44 m. The errors, continues he, in point of time, I believe will not exceed half a minute. The true noon was determined by a Meridian line previously made; also by two equal altitudes of the Sun the same day, both agreeing to half a minute. The Sun's altitude was found at the end of the eclipse also, and the time of that was found by calculation to agree with the clock very nearly. And he concludes from the observations, that the tables have not given the Moon's latitude exactly.—But of this it is hard to judge, from observations made by those, who are not in the constant practice of so doing.

Letters, containing answers to the Critical and Philosophical Questions and Enigmas; from Mr. J. Cairns of Monckton, Mr. Thomas Leybourn of North Shields, Mr. J. Liddell of Habron, near Malton, Mr. H. Mellanby of Stockton, and Mr. John Ward of Hinckley, did not come to hand till that part of the Diary was finished.

The Gentlemen to whom the Prizes are allotted, are desired to send for them to Mr. R. Horsfield at Stationers-Hall, London. Namely, *Eumenes* 12 Diaries, for the Ans. to the Pr. Quest. Mr. W. Watkins of Wylam-Engin, Northumberland, 9 Diaries for the Gen. Ans. Mr. J. T. Hughes of Cothertone, near Barnard-Castle, Yorkshire, 9 Diaries for the Ans. to the Pr. Enigma; and Mr. J. Ward of Hinckley, 6 Diaries, for being so candid, as to mention the New London Magazine for March 1791. Another sent Answers copied from theur, without ever mentioning it.

All letters for this Diary must be sent before the first of May 1792, directed to the Author of the Gentleman's Diary, Stationers-Hall, London.

ENOK AND
THE FOUNDATION of the Salt-kin has not sufficient data; nor that containing the Hopper, which is the reason they are omitted.

JANUARY

JANUARY hath XXXI Days.

M ☉ Dec
D ☽ South

First Quarter 11th Day, 21 m. past 4 Morning.

Full Moon 9th Day, 4 m. past 9 Morning.

Last Quarter 17th Day, 28 m. past 2 Morning.

New Moon 23d Day, 27 m. past 5 Afternoon.

First Quarter 30th Day, 1 m. past 11 Night.

☉ enters 20th Day, 6 H. 11 M. Morning.

1	23°	1
6	22	30
11	21	48
16	20	56
21	19	54
26	18	42

1	A Sun. Circumc.	Days inc. 8 m.	morn.	6	18	7	fair.
2	M		1	4	7	3	8
3	T		2	7	7	48	9
4	W		3	9	8	33	10
5	T	Old Christmas Day.	4	7	9	19	11
6	F	Epiphany.	5	4	10	5	12
7	S		5	55	10	52	13
8	A	1 S. af. Epip. Lucian P. & M.	6	42	11	39	14
9	M	Plough-Monday.	D rises.	morn.	F	fair.	
10	T		5	a	46	26	16
11	W		6	49	1	13	17
12	T	Old New Year's-Day.	7	52	1	59	18
13	F	Hilary B. & C. Cam. T. be.	8	59	2	45	19
14	S	Oxf. T. be. D. inc. half an h.	10	6	3	31	20
15	A	2d Sund. aft. Epiph.	11	16	4	17	21
16	M		morn.	5	4	22	
17	T	Old Twelfth Day.		29	5	54	23
18	W	Q. Char. Birth-D. to Prisca.	1	42	6	47	24
19	T		2	54	7	42	25
20	F	Fabian, B. et M. In 8 d. of St.	4	5	8	40	26
21	S	Agnes, V. & M. [H. 1 ret.	5	10	9	41	27
22	A	3d Su. aft. Epip. Vincent, M.	D sets.	10	42	28	
23	M	Hilary Term begins at West.	4	a	32	11	42
24	T		5	47	aft.	40	1
25	W	Conversion of St. Paul.	7	3	1	34	2
26	T	[Days inc. 1 Ho. 2 Ret.	8	18	2	26	3
27	F	Pr. Aug. Fr. b. 1773. In 15	9	29	3	15	4
28	S	[days of St. Hil.	10	38	4	2	5
29	A	4th Sund. aft. Epiphany.	11	44	4	48	6
30	M	K. Char. I. mart.	morn.	5	34	7	fair.
31	T	cold month ends.	5	6	20	8	

D	☉ Rises	☉ Sets	☾ Cl. bef.	☉ D. Break.	Sun East	Saturn So	Jupiter S.	Mars S
1	8	5	3	55	4	2	6	0
6			59	6	18	5	58	
11	7	56	4	4	8	23	54	
16		50	10	10	13	49	49	
21		44	16	11	46	44	53	
26		36	24	13	1	39	57	
							6	a
							5	40
							5	19
							4	58
							5	38
							5	18
							7	m
							6	41
							21	4
							4	30
							4	22
							4	5
							3	40

MARCH hath XXXI Days.

Full Moon 8th Day, 35 m. past 6 Afternoon.	1	7° 14'
Left Quarter 15th Day, 4 m. past 7 Afternoon.	6	5 16
New Moon 22d Day, 50 m. past 5 Afternoon.	11	3 18
First Quarter 30th Day, 36 m. past 3 Afternoon.	16	1 20
	21	Nor. 38
☉ enters ♉ 19th Day, 9 H. 23 M. Night.	26	2 36

1	I	David, A. Bp.	1 m 33	6 a 35	8 cloudy.
2	F	Chad, Bp.	2 24	7 22	9
3	S		3 10	8 10	10 fair.
4	G	2d Sunday in Lent.	3 52	8 58	11
5	M		4 29	9 45	12
6	T	Old St. Matthias.	5 01	10 33	13
7	W	Perpetua, M.	5 30	11 21	14 cloudy.
8	T		Drifts.	morn.	F fair.
9	F		6 a 53	9 16	
10	S		8 6	58	17 windy.
11	G	3d Sunday in Lent.	9 19	1 48	18 fair.
12	M	Gregory, M. B.	10 32	2 40	19
13	T		11 44	3 34	20
14	W		morn.	4 29	21
15	T		53	5 26	22
16	F		1 54	6 24	23
17	S	Patrick,	2 44	7 22	24
18	G	4 S. in L. Mid-l. S. Edw. K.	3 34	8 19	25
19	M	Spring begins.	4 12	9 14	26
20	T		4 45	10 7	27
21	W	Benedict, Ab.	5 15	10 58	28
22	T		Drifts.	11 47	N
23	F		7 a 14	aft.	1 show'ry
24	S		8 22	1 24	2 cloudy.
25	G	5 Su. in L. Ann. of E. V. M.	9 28	2 12	3 fair.
26	M		10 31	3 0	4
27	T		11 30	3 48	5
28	W		morn.	4 35	6 cloudy.
29	T	Days 12 H. 45 M. long.	23	5 22	7
30	F	Cambridge Term ends.	1 11	6 10	8
31	S	Oxford Term ends.	1 54	6 58	9 fair.

D	☉ Rises	☉ Sets	☉ Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	6 32	5 28	12 29	4 4	5 36	2 a 13	3 m 7	1 m 21
6	22	38	11 20	31	42	1 57	2 48	0 55
11	12	45	10 1	20	48	1 41	2 28	0 29
16	2	58	8 36	10	55	1 25	2 8	0 3
21	5 52	6 8	7 5	0 6	1 1	9 1	48	11 a 37
26	42	18 5	3 48	3 48	7 0	53	1 28	11 11

A P R I L hath XXX Days.

M. ☉ Decd.
D. North

Full Moon 14th Day, 22 m. past 7 Morning.
Last Quarter 14th Day, 26 m. past 1 Morning.
New Moon 1st Day, 34 m. past 7 Morning.
First Quarter 29th Day, 2 m. past 10 Morning.

1	48	59
6	6	49
11	8	47
16	10	45
21	12	44
26	12	49

☉ enters 8 2nd Day, 4 H. Afternoon.

1	6th Sun. in Lent. Palm-Sun.	2m 32	7 a 45	10	
2	M Richard, Bp.	3 6	8 32	11	fair.
3	W St. Ambrose.	3 3	9 19	12	
4	T O. d. Lady-Day, Maundy Th.	4 5	10 7	13	
5	F Good Friday, Crucifixion.	4 31	10 56	14	
6	S	4 58	11 46	15	
7	G Easter-D. The Resurrection.	D rites	morn.	F	
8	M Easter Monday.	8 a 24	39	17	
9	T Easter Tuesday.	9 34	1 33	18	cloudy.
10	W	10 51	2 30	19	rain.
11	T	11 56	3 28	20	show.
12	F	morn.	4 27	21	cloudy.
13	S	53	5 26	22	rain.
14	U 1st Sun. aft. Easter. Low-Su	1 43	6 23	23	showers
15	M	2 23	7 18	24	snow.
16	T	2 51	8 10	25	cloudy.
17	W Oxf. and Camb. Terms beg.	3 26	9 12	26	fair.
18	T Alphege, A. B.	3 53	9 50	27	
19	F	4 19	10 38	28	
20	S	4 47	11 25	29	
21	G 2d Sunday after Easter.	D sets.	aft.	12	N cloudy.
22	M St. George, M. Fr. East. in 2	8 a 25	1 0	1	
23	T [w. 1 ret.	9 25	1 47	2	showers
24	W St. Marks Prs. Mary b. 1776	10 22	2 35	3	
25	T [Easter Term beg. at West	11 13	3 23	4	
26	F	11 58	4 10	5	
27	S	morn.	4 57	6	fair.
28	G 3d Sunday after Easter.	37	5 44	7	
29	M From Easter in 3 weeks 2 re.	1 12	6 31	8	showers
30		1 43	7 17	9	fair.

☉ Rises	☉ Sets	Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
5 31	6 29	3 42	3 31	6 15	8 12	1 17	4 10
21	39	2 32	19	21	0 18	0 43	10 19
11	49	0 48	4	27	0 3	0 22	9 57
2	58	aft. 27	2 52	33	11 m 46	0 0	9 35
4 53	7 7	1 34	38	39	11 30	12 38	9 14
44	16	2 29	23	44	11 14	11 20	8 53

M A Y hath XXXI Days.

M ☉ Decl
D North.

Full Moon 6th Day, 16 m. past 5 Afternoon.
Last Quarter 13th Day, 44 m. past 7 Morning.
New Moon 20th Day, 59 m. past 9 Afternoon.
First Quarter 29th Day, 43 m. past 1 Morning.

1 15° 21'
6 16 48
11 18 7
16 19 19
21 20 23
26 21 18

☉ enters ♌ 20th Day, 10 H. 37 M. Morning.

1	T	St. Philip & St. James Ap.	2m 12	8 a 3	10	rain.
2	W		2 38	8 51	11	fair.
3	T	Invention of the Cross.	3 5	9 40	12	showers
4	F		3 32	10 31	13	cloudy.
5	S		4 0	11 24	14	rain.
6	G	S. a. Ea. St. J. Ev. ante P. L.	Drises.	morn.	F	showers
7	M	From Easter in 1 month 3 re.	8 a 38	21 16	cloudy.	
8	T		9 48	1 20	17	fair.
9	W		10 51	2 20	18	thunder
10	T		11 43	3 21	19	cloudy.
11	F		morn.	4 20	20	fair.
12	S	Old May-Day.	27 5	17 21		
13	G	5 Sun. aft. East. Rogat. Su.	1 4	6 11	22	
14	M	From East. in 5 w. 4 ret.	1 54	7 2	23	
15	T		2 1	7 51	24	
16	W		2 28	8 38	25	
17	T	Ascension-Day. Holy Thuri.	2 55	9 25	26	showers
18	F	On morrow of Ascen. 5 ret.	3 20	10 11	27	fair.
19	S	Q. Char. b. 1744. Dunt. A. B.	3 48	10 57	28	showers
20	G	Sun. after Ascension-Day.	D sets.	11 44	N	
21	M	East. Term ends,	8 a 16	aft. 31	1	
22	T	Prs. Eliz. born 1770.	9 9	1 19	2	rain.
23	W		9 57	2 7	3	fair.
24	T	Oxford Term ends.	10 38	2 54	4	showers
25	F		11 14	3 40	5	
26	S	Augustin. A. R. Cant.	11 47	4 26	6	
27	G	Whit-Sund. Ven. Bede, Pr.	morn.	5 11	7	showers
28	M	Whit-Monday. [Ca. T. div.	14 5	56	8	thunder
29	T	K. C. II. Nat. & Rest. Wh. T	40 6	42	9	showers
30	W	Wenber Week.	1 5	7 29	10	
31	T		1 22	8 17	11	

Q	☉ Rises	☉ Sets	Cl. aft. ☉	D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	4 35	7 25	3 12	2 5	6 50	10 m 57	10 a 55	8 a 34
26	27	33	3 41	1 51	56	10 40	10 33	8 17
31	19	41	3 57	1 29	7 0	10 23	10 11	8 0
16	11	49	3 58	1 6	5 10	6 9	50 7	44
11	4	56	3 44	0 30	9 9	48 9	29 7	28
26	3 58	8 2	3 17	No night	11 9	30 9	8 7	12

JUNE hath XXX Days.

☉ Dec. North

Full Moon 15th Day, 7 m. before 1 Morning.
 Last Quarter 11th Day, 34 m. past 3 Afternoon.
 New Moon 19th Day, 43 m. past Noon.
 First Quarter 27th Day, 17 m. past 2 Afternoon.

1 22 21
 6 21 45
 11 23 10
 16 23 24
 21 23 28
 26 23 21

☉ enters 20th Day, 7 H. 19 M. Afternoon.

1	F	Nicomede, M.	1m 57	9 a	8 12	fair.
2	S		2 26	10	2 13	
3	C	Trinity Sunday.	3 2	11	0 14	
4	M	K. Geo. III. b. 1738. Tr. 1 ret.	3 43	12	0 15	showers
5	T	Pr. Er. Aug. born. Bonif.	☉ rises.	morn.	F	fair.
6	W	Oxford Term begins.	9 a 22	1	2 17	
7	T	Corpus Christi Day.	10 20	2	4 18	
8	F	Trin. Term begins.	11 1	3	4 19	showers
9	S		11 36	4	1 20	fair.
10	C	1st Sunday after Trinity.	morn.	4	5 21	showers
11	M	St. Barnabas. Trin. 2 Ret	4 5	45	22	fair.
12	T		29 6	33	23	
13	W		55 7	25	24	
14	T		1 21	8	6 25	
15	F		1 48	8	52 26	
16	S		2 18	9	38 27	cloudy.
17	C	2 Su. aft. Trin. St. Alban, M.	2 50	10	25 28	fair.
18	M	Trinity 3 Ret.	3 25	11	12 29	
19	T		☉ sets.	11	59	N cloudy.
20	W	Transla. K: Edw.	8 a 33	aft.	45 1	fair.
21	T	Longest Day.	9 12	1	33 2	
22	F		9 45	2	19 3	
23	S		10 14	3	4 4	
24	C	3 Su. a. Tr. St. J. Bap. Mi. D.	10 40	3	48 5	showers
25	M	Trinity 4 Ret.	11 7	4	33 6	
26	T		11 31	5	18 7	
27	W	Trinity Term ends.	11 57	6	4 8	
28	T		morn.	6	52 9	fair.
29	F	St. Peter, Apost. and Martyr	21 7	43	10	
30	S		52 8	38	11	

D	☉ Rises	☉ Sets	Cl. aft. ☉		☉ East	Saturn S.	Jupiter S.	Mars S.
1	3 51	8 9	2 29	No	7 16	9 m 8	8 a 42	6 a 55
6	47	13 1	39	real.	18 8	49 8	21 6	41
11	45	15 0	42	Night	19 8	30 8	0 6	29
16	43	17 bef.	20	in	20 8	11 7	39 6	14
21	43	17 1	25	Bri-	20 7	52 7	18 6	1
26	44	16 2	29	tain.	20 7	33 6	57 5	48

J U L Y - hath XXXI Days.

M^o Dec.
D^y North.

Full Moon 4th Day, 23 m. past 7 Morning.

Last Quarter 11th Day, 46 m. past 1 Morning.

New Moon 19th Day, 41 m. past 3 Morning.

First Quarter 26th Day, 58 m. past 11 Night

1	23	4
6	22	37
11	22	1
16	21	14
21	25	29
26	29	15

☉ enters ♋ 22d Day, 6 H. 11 M. Morning.

1	G	4th Sunday after Trinity.	1m 29	9 a 36	12	thower
2	M	Vifination of B. V. Mary.	2 14	10 36	13	
3	T	Dog Days begin. Cam. Com.	3 6	11 39	14	fair.
4	W	Tr. of Martin Bp.	D rises.	morn.	F	shower
5	T		8 a 50	41	16	☉
6	F	Cambridge Term ends.	9 28	1 41	17	
7	S	Thomas à Becker.	10 1	2 38	18	fair.
8	G	5th Sunday after Trinity.	10 29	3 32	19	
9	M	Oxford Aft.	10 56	4 23	20	rain.
10	T	Old St. Peter.	11 23	5 12	21	cloudy.
11	W		11 49	5 59	22	showers
12	T		morn.	6 45	23	☉
13	F		16 7	31	24	
14	S	Oxford Term ends.	48 8	17	25	
15	G	6 S. aft. Tr. Swithun, B. Tr.	1 22	9 4	26	fair.
16	M		2 3	9 51	27	
17	T		2 50	10 39	28	
18	W		3 40	11 26	29	
19	T		D sets.	aft.	12	N
20	F	Margaret, V. & M.	8 a 14	58	1	rain.
21	S		8 45	1 44	2	cloudy.
22	G	7 S. aft. Tr. St. Mary Mag.	9 9	2 29	3	fair.
23	M		9 34	3 13	4	rain.
24	T		9 57	3 58	5	fair.
25	F	St. James, Apostle.	10 22	4 44	6	cloudy.
26	T	St. Anne. Old St. Swithun.	10 52	5 33	7	rain.
27	F		11 24	6 25	8	
28	S		morn.	7 20	9	
29	G	8th Sunday after Trinity.	3 3	17 10	cloudy.	
30	M		50 9	17 11	showers	
31	T		1 44	10 19	12	fair.

D	☉	Rises	☉	Sets	Cl. bef.	☉	D. Break	☉	East	Saturn S.	Jupiter S.	Mars S.
1	3	40	8	20	3	29		7	19	7 m 14	6 a 37	5 a 36
6		50		10	4	21			18	6 54	6 18	5 25
11		54		6	5	5			16	6 35	5 59	5 14
16		59		1	5	38			13	6 16	5 40	5 4
21	4	4	7	56	5	58			9	5 57	5 21	4 54
26		10		50	6	4	☉ 46		5	5 38	5 3	4 44

AUGUST hath XXXI Days.

M ☉ Del. North.

Full Moon 2nd Day, 11 m. past 2 Afternoon.

Last Quarter 9th Day, 55 m. past 2 Afternoon.

New Moon 17th Day, 41 m. past 6 Afternoon.

First Quarter 25th Day, 26 m. past 7 Morning.

Full Moon 31st Day, 29 m. past 10 Night.

☉ rises 12 22^h Day, ☉ H. 35 M. Afternoon.

1	17	48
6	16	28
11	15	
16	13	28
21	11	49
26	10	6

1	W	Lammas-Day.	7 m 53	11 a 20	13	fair.
2	T		D rises.	morn.	1	showers
3	F		7 a 57	19	5	
4	S		8 28	1	16	16 fair.
5	G	9 Sun. aft. Tr. Old St. Jas.	8 57	2	10	17
6	M	Transfiguration of our Lord.	9 26	3	2	18 showers
7	T	Pr. Amel. b. Name of Jesus	9 53	3	52	19
8	W		10 20	4	40	20 fair.
9	T		10 51	5	27	21
10	F	St. Laurence, M.	11 24	6	14	22
11	S	Pr. of Brun. b. 1737. Dog d.e.	morn.	7	1	23
12	G	10 S. a. Tr. Pr. of Wa. b. 1762.		2	7	48 24
13	M	[Old Lammas-D.	46	8	36	25
14	T		1 35	9	24	26
15	W	Assumption.	2 30	10	11	27
16	T	D. of York bo. 1763.	2 38	10	58	28 showers
17	F		D sets.	11	44	N
18	S		7 a 16	aft.	29	1 fair.
19	G	11th Sund. after Trin.	7 41	1	14	2 showers
20	M		8 6	2	0	3 fair.
21	T	D. of Clarence, bo. 1765.	8 31	2	47	4
22	W		9 9	3	35	5
23	T		9 30	4	25	6 cloudy.
24	F	St. Bartholemew, Apost.	10 5	5	17	7 fair.
25	S		10 49	6	12	8 rain.
26	G	12th Sunday after Trinity.	11 41	7	10	9
27	M		morn.	8	9	10 cloudy.
28	T	St. Augustine, B.	41	9	9	11
29	W	St. John Baptist beheaded.	1 51	10	8	12
30	T		3 5	11	5	13
31	F		4 24	12	4	14

☉	Rises	☉	Sets	Cl. bet.	☉	D. Break	☉	East	Saturn S.	Jupiter S.	Mars S.		
1	4	20	7	40	5	51	1	24	7	0	5 m 16	4 a 42	4 a 34
6		27		33	5	23	1	44	6	55	4 57	4 26	4 27
11		36		24	4	41	2		2	50	4 38	4 10	4 20
16		45		15	3	45	2		2	45	4 19	3 34	4 13
21		54		6	2	37	3		3	39	4 0	3 38	4 0
26	5	3	6	57	1	18	4		4	34	3 42	3 23	3 59

SEPTEMBER hath XXX Days.

M Dec.
D North.

Last Quarter 8th Day, 9 m. past 7 Morning.
New Moon 16th Day, 18 m. past 9 Morning.
 First Quarter 23d Day, 48 m. past 1 Afternoon.
Full Moon 30th Day, 6 m. past 9 Morning.

1	7° 57'
6	6 6
11	4 12
16	2 17
21	0 20
26	1 36

☉ enters ♈ 22d Day, 9 H. 4 M. Morning.

1	S	Gues, Ab. and C.	D rises.	morn.	15	cloudy
2	G	13 S. af. Tr. Lon. burnt 1666.	7 a 30	54	16	fair.
3	M		7 58	1	46	17 showers
4	T	Old St. Bartholomew.	8 26	2	36	18
5	W		8 57	3	25	19
6	T		9 30	4	14	20
7	F	Enurchus, B.	10 8	5	2	21
8	S	Nativity of B. V. Mary.	10 51	5	51	22 fair.
9	G	14th Sunday after Trinity.	11 38	6	39	23
10	M		morn.	7	26	24
11	T		30	8	14	25
12	W		1 26	9	0	26
13	T		2 26	9	47	27
14	F		3 28	10	33	28 cloudy.
15	S		4 33	11	19	29 fair.
16	G	15th Sund. aft. Trin.	D sets.	aft.	5	N
17	M	Lambert, E. M.	6 a 44	5	2	1
18	T		7 12	1	41	2
19	W	Ember Week.	7 42	2	31	3
20	T		8 16	3	2	4 showers
21	F	St. Matthew, Evang.	8 57	4	17	5 fair.
22	S	K. Geo. III. cr. 1761. Equat	9 44	5	1	6 cloudy.
23	G	16 Sund. aft. Tr. [Day & Ni]	10 42	6	11	7 showers
24	M		11 45	7	9	8 cloudy.
25	T	Holy Cross Day.	morn.	8	7	9
26	W	St. Cyprian, M.	57	9	3	10
27	T		2 11	9	58	11
28	F		3 28	10	51	12 fair.
29	S	St. Mi. Pr. Ch. Au. M. b. 1766	4 43	11	42	13 cloudy.
30	G	17 S. af. Tr. St. Jerom, C.D.	5 59	morn	F	fair.

D ☉ Rises ☉ Sets ☉ Cl. aft. ☉ D Break ☉ H alt ☉ Return S. ☉ Jupiter S. ☉ Mars S.

1	S	15	6	45	0	29	3	17	6	27	3	m	19	3	a	4	3	a	53
6	+	24		36	2	8	21		21	3	0	2	49	3	48				
11	+	34		26	3	50	34		14	2	41	2	34	3	43				
16	+	44		16	5	34	45		8	2	22	2	20	3	39				
21	+	54		6	7	18	56		2	2	3	2	6	3	35				
26	6	4	5	56	9	1	4	7	5	56	1	45	1	52	3	31			

CTO. ER March XXXI Days.

Quarter 8th Day, 5 m. past 2 Morning.	1 34 33
15th Day, 56 m. past 10 Night.	6 5 29
Quarter 22d Day, 12 m. past 8 Night.	11 7 23
19th Day, 23 m. past 10 Night.	16 9 19
enters m. 23 Day, 3 H. 1 M. Afternoon.	21 12 3
	26 2 47

Remigius, Bp.	1 m. 37 15 141.
Old St. Matthew.	7 2 4 2 23 6 14 141.
	7 3 2 1 12 141.
	8 13 3 2 16 141.
	8 53 3 5 10 141.
Faith, V. M.	9 3 4 4 20 141.
18th Sunday after Trinity.	10 2 5 28 141.
	11 2 6 10 141.
St. Denys, B. M.	morn. 7 3 23 141.
O. Mich. D. Ox. & C. T. b.	22 7 4 21 141.
	1 23 8 35 141.
	2 27 9 20 141.
Transf. of K. Edw. Conf.	3 3 10 6 141.
19th Sunday after Trinity.	4 4 10 53 141.
	5 2 11 41 141.
	5 2 50 aft. 31 141.
Etheldreda, V.	6 24 1 24 141.
St. Luke, Evangelist.	7 3 2 19 141.
	7 40 3 15 141.
	8 43 4 1 141.
20th Sunday after Trinity.	9 45 5 11 141.
	10 52 6 9 141.
	morn. 7 4 8 141.
	5 7 58 9 141.
K. Geo. III. Acc. Crif. Mar.	1 19 8 50 141.
K. Geo. III. Proclam. 1760.	2 34 9 41 141.
	3 48 10 30 141.
21 S. af. T. St. Sim. & Jude.	5 2 11 15 141.
	Drife. morn. 1 15 141.
	5 4 36 8 141.
	6 11 57 16 141.

ifes	○ Sets	Cl. aft. ○	D. Break	○ Eff	Saturn S.	Jupiter S.	Mars S.
13	5 47 10 38	4 17	5 50	1 m. 26	1 a 34	3 m 28	
27	37 12 7	25	44 1	5 1	23 3	25	
33	27 13 26	38	37 0	44 1	8 3	22	
41	17 14 32	48	31 0	25 0	54 1	19	
53	7 15 23	57	25 0	2 0	47 3	16	
3	4 57 15 57	5 6	19 11	4 41 0	26 3	13	

NOVEMBER hath XXX Days.

M. Dec. South.

Last Quarter 6th Day, 35 m. past 10 Night.

New Moon 14th Day, 16 m. past 11 Morning.

First Quarter 21st Day, 52 m. past 3 Morning.

Full Moon 28th Day, 15 m. past 2 Afternoon.

☉ enters ♌ 21st Day, 1 H. 13 M. Afternoon.

1	All Saints.	6	2	52	1	46	17	rain.
2	Pr. Ed. b. 1767. All Souls.	7	34	2	35	18	fair.	
3	Prs. Sop. b. 1777. On Mor. of	8	22	3	24	19	rain.	
4	22 S. af. Tr. [All Souls 1 R.	9	15	4	12	20	fair.	
5	Powd. Pl. 1605. Papists Conf	10	11	4	59	21		
6	Leonard, C. Michaelm. T. b.	11	10	5	45	22	rain.	
7					6	30	23 cloudy.	
8	Prs. Aug. Sophia b. 1768.		13	7	15	24	fair.	
9	Lord Mayor's Day at Lond.	1	17	8	0	25	cloudy.	
10		2	24	8	45	26		
11	3d Su. af. Tr. St. Mart B.	3	33	9	32	27		
12	On M. of St. M. 2 R. Ca. T. div	4	43	10	21	28		
13	Brinus; B.	5	56	11	13	29	fair.	
14								
15	Machutus, B.				7	N	cloudy.	
16		5	2	37	1	4	1 fair.	
17	Hugh, Bp. of Lincoln.	6	33	2	3	2		
18	24th Sunday after Trinity.	7	34	3	3	3		
19	3 Ret. Martin.	8	41	4	2	4		
20	Edmund K. & M.	9	53	4	59	5	showers	
21		11	7	5	53	6		
22					6	45	7 thunder	
23	Cæcilia, V. & M. O. St. Mart.		22	7	35	8	rain.	
24	St. Clement, B. M.	1	35	8	24	9	fog.	
25		2	40	9	12	0	fair.	
26	25 S. 2. Tr. D. of Glo. b. 1743.	3	55	9	59	11	showers	
27	In 15da. of St. Mart. 4 R. [Cath.	5	3	10	47	12		
28		6	9	11	35	13	fair.	
29	Michaelmas Term ends.							
30								
1		5	2	23		24	15 cloudy.	
2	St. Andrew, Apost.	6	6	r	12	16	16 snow.	

D	☉ Rises	☉ Sets	Cl. afr.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.								
1	7	13	4	47	16	15	5	17	5	13	11 a	16	0 a	8	3 a	10
6		22		38	16	7		24		7	10	55	11 m	52	3	6
11		30		30	15	38		30		2	10	34	11	36	3	2
16		37		23	14	47		36	4	57	10	12	11	20	2	58
21		45		15	13	35		43		53	9	3	11	3	2	54
26		52		8	12	5		49		49	9	28	10	40	2	51

DECEMBER hath XXXI Days.

M^o Dec.
D South.

1st Quarter 6th Day, 50 m. past 6 Night.
New Moon 13th Day, 26 m. past 10 Night.
1st Quarter 20th Day, 4 m. past 1 Afternoon.
Full Moon 28th Day, 16 m. past 8 Morning.

1	21	59
6	22	38
11	23	0
16	23	23
21	23	28
26	23	21

☉ enters by 21st Day, 1 H. 35 M. Morning.

S		6 a	59	2 m	C	17	fair.
G	Advent Sunday.	7	54	2	47	18	
M		8	52	3	38	19	rain.
T		9	52	4	18	20	fair.
W		10	53	5	2	21	cloudy.
T	Nicholas, Bp.	11	58	5	46	22	fair.
F		morn.		6	30	23	rain.
S	Conception of V. Mary.	1	5	7	15	24	cloudy.
G	2d Sunday in Advent.	2	12	8	1	25	
M		3	22	8	50	26	
T		4	35	9	42	27	rain.
W		5	48	10	37	28	fair.
T	Lucy, V. and M.	D sets.		11	35	N	rain.
F		5 a	5	aft.	36	1	fair.
S		6	11	1	37	2	rain.
G	3d S. in Ad. O. Sap. Ca. T. e.	7	24	2	3	3	
M	Oxf. Term ends.	8	40	3	35	4	cloudy.
T		9	57	4	29	5	rain.
W	Ember Week.	11	11	5	21	6	snow.
T		morn.		6	10	7	fair.
F	St. Tho. Apol. Shortest D.		25	6	58	8	rain.
S		1	35	7	45	9	fair.
G	4th Sunday in Advent.	2	42	8	32	10	showers.
M		3	47	9	19	11	fair.
T	Nativity, or Christmas-Day.	4	50	10	7	12	showers.
W	St. Stephen. Protomartyr.	5	50	10	55	13	fair.
T	St. John. Evang.	6	45	11	43	14	cloudy.
F	Innocents' Day.	D rises.		morn.	F		fair.
S		5 a	32		30	16	
G	Sunday after Christmas.	6	28	1	16	17	rain.
M	Silvester, B.	6	2	2	1	18	fair.

☉	Rises	☉	Sets	Cl. aft.	☉	D. Break	☉	East	Saturn S.	Jupiter S.	Mars S.				
7	58	4	2	10	17	5	55	4	46	9 a	5	10 m	29	2 a	46
8	3	3	57	8	13		58		43	8	43	10	11	2	40
	6		54	5	56		59		41	8	20	9	53	2	35
	8		52	3	30	6	0		40	7	57	9	35	2	29
	8		52	1	1		1		40	7	34	9	17	2	24
	7		53	1	28		0		40	7	11	8	59	2	1

ANSWERS to the QUESTIONS Critical and Philosophical.

CIX. By Mr. *John Burrow*, of Boltonfield.

Pilate was an Italian; and though he was of a cruel and passionate temper, and put to death some Galileans as they offered sacrifice; yet we have no instance of his not believing in God. The Romans were a wise people, and not only chose men of knowledge and discretion for governors and judges, but also caused them to send copies of all their judicial acts and proceedings to the Emperor. He tried several methods to preserve the life of our Blessed Saviour, first, in pleading for him; secondly, in sending him to Herod, for he hoped the Jews would not have followed thither to accuse him; thirdly, in joining him with Barabbas that one of them might be released, for he thought they would rather have chosen Christ than a thief and murderer; and, fourthly, by scourging him, for he thought that would have been sufficient. When he could not prevail he was exceedingly afraid, first, that he was condemning an innocent person; secondly, of the terrible dream of his wife; thirdly, that the Jews would charge him with being an enemy to Cæsar if he did not condemn him; and fourthly, that as he was accused of calling himself the Son of God, *Pilate* suspected he might be so; &c.

Like answers are given by Messrs. *Cowing*, *Fildes*, *Glendinning*, *Hughes*, *Jackson*, *Murray*, *Philander*, *Roberts*, *Walton*, and *Wyrill*.

CX. By *Philocriticus*.

The very diligent and learned *Vander Hooght*, in the preface to his celebrated edition of the Bible, speaking of the inverted nuna in question, tells us, with regard to these, and some other particularities of the like kind, that "they, no doubt, well deserved the regard paid them by the antients for very good reasons. But those reasons are entirely lost to us, as we may well suppose they must be, when we consider the calamitous times, the many wars and captivities the later Jews have suffered. All men of learning however acquiesce in the persuasion that they are standing marks of some mysterious sense, monuments of ancient wisdom."—Our countryman, Mr. *Lewis*, (*Antiq. V. 4. b. vii. ch. xxix.*) speaks much less respectfully of these things. They draw mysteries also from this, says he, that letters are written and not read; or read and not written, that they are great, or little; suspended or turned upside down; full, or defective; pointed above, or accented in an irregular manner. In a word, there is not the least trifle, but the cabalists found their dotages upon it, which have no other foundation, or rule, but their fancy, and disorderly imaginations.

The Reader will determine for himself, which of these opinions he will accede to; but will wish perhaps to know also what the Jews would say in answer. And this *Pool*, in his *Synopsis* on Numb. x. 35. tells him, is, that the 1st D signifies either the favourable salutary conversion of God to the people in answer to Moses's prayers for them; or the effectual working of his power turned against their enemies; and the 2^d D the perverse wickedness of the people in turning from God.

Like answers are given by Messrs. *Burrow*, *Cowing*, *Glendinning*, *Jackson*, *Roberts*, *Swift*, and *Walton*.

CXI. By Mr. *J. Jackson*, of Hutton-Rudby.

This must have been done with a view of obtaining a more rapid propagation of mankind; for by the younger sister not being permitted to marry before the elder, beauty could not take the advantage of age, as was the

the case with Rachel and Leah; by which all the women had a greater chance of getting married; and from a plurality of wives being allowed to men in affluent circumstances, there was thought to be a greater chance of more children being born; whereas a plurality of men cohabiting with one woman, has always been found to have the contrary effect.

Similar answers are also given by Messrs. *Burrow, Cowing, Glendenning, Hughes, Cowbian, Murray, Roberts, Walton, and Wyrill.*

CXII. By Mr. *T. Wilkinson*, the Proposer.

This law arises from the highest notion of absolute power. The Emperor asserts that every thing in the possession of any individual in the empire, from his power, belongs to him; therefore whatever profusion is made by a subject, is made at his sovereign's expence, and consequently he has a right to punish the offender in what manner he thinks proper, which in absolute governments is always with severity.

Answers are also given by Messrs. *Burrow, Cowing, Glendenning, and Jackson.*

CXIII. The stone mentioned by Mr. *Whiston* was probably of the same kind with that which fell near *Coutance* in France, Oct. 11, 1750, about noon, it was about the size of a gallon bottle, and was supposed to proceed from some volcanic eruption: a noise was heard to the distance of 45 miles, like three successive reports of cannon; the last was succeeded by a rumbling, which lasted several minutes, and was accompanied by a crash where the stone fell, like the violent tearing off a large limb of a tree: it continued warm above an hour after its fall, and appeared black, not luminous, in its flight.

Ingenious answers to this are given by Messrs. *Cowing, Glendenning, Jackson, Swift, and Walton.*

CXIV. By Mr. *A. Glendenning* of Morpeth.

Perhaps there is not in the strict sense of the word, any inherent healing quality in the electric fluid, though it has certainly been found useful, especially in paralytic cases: indeed so subtle and elastic a fluid admitted in large quantities into our bodies must needs warm the juices and quicken the pulse. In the report of the Doctors regents of the medical faculty of Paris, concerning the advantages they had observed in the new method of administering electricity, is the very singular case and treatment of a woman afflicted with a catalepsy; who, in one of the fits, remained above 30 days entirely motionless, without either eating or drinking, and was perfectly cured in a short time.

Ingenious answers are also given by Messrs. *Burrow, Cowing, Fildes, Hughes, Jackson, Roberts, Swift, Walton, and Wyrill.*

CXV. By Mr. *Jos. Cowing* of Newcastle.

The reason why the barrel-churn produces butter sooner when slowly turned about than otherwise, is owing to the gravity of the cream by which it tends to descend to the lowest part, and the milk on each side meets the contrary breakers, which has the desired effect: but if turned with a greater velocity, the milk takes upon itself the same motion as the churn, and by adhering close to its sides goes about in one compact body.

Like answers are given by Messrs. *Burrow, Glendenning, Hughes, Jackson, Roberts, Swift, Walton, and Wyrill.* Mr. *Glendenning* says, the best churns by *J. Rastrick* of Morpeth, produce butter in half the time taken by others. Their barrels being fixed, and the *fans* turned round within them.

CXVI. By Mr. J. Walton, of Allondale.

The Hick-up is a "spasmodic, convulsive, interrupted and uneasy concussion of the diaphragm." So any agitation that will restore the muscles to their proper tone will remedy it.

Thus Messrs. Burrow, Cowing, Fildes, Glendenning, Hughes, Jackson, Roberts, Swift, and Wyrill, also answer it.

CXVII. By Mr. J. Gough, of Kendal.

Sulphur consists of phlogiston and vitriolic acid; sea-salt of the muriatic acid, and mineral alkali; now the affinity between the muriatic acid and phlogiston is very strong, as is that of the basis of salt and the acid of sulphur; therefore when these two neutral compounds are heated in contact, a double elective attraction takes place, the acid of salt uniting with the inflammable principles of the sulphur flies off insensibly in the form of an inoffensive vapour; while the vitriolic acid, joining with the mineral alkali, produces glauber-salts.

In the same manner it is answered by Mr. Jos. Cowing: and not very differently by Messrs. Burrow, Glendenning, Jackson, Walton, Ward, and Wyrill.

CXVIII. By Mr. W. Murray, of Hallington.

Single marriages contribute most to the propagation of mankind; for the odds of number between males and females is small, supposed as 19 to 20; also for want of proper love in the males; and the jealousies, envies, &c. of the females, which is always the case in polygamy, are all against propagation: and we have, at this day, instances of one woman bearing more children to one husband than both Jacob's wives did, or all David's or Solomon's.

Messrs. Burrow, Cairns, Cowing, Glendenning, Jackson, Walton, and Wyrill, also gave answers.

CXIX. By Mr. J. Walton.

Meteors are inflammable air (or gas) fired by electricity. See Cavallo on Air, p. 647.

Mr. Gough says, little knowledge of this can be obtained from any observations hitherto made, we must therefore be contented with a rational hypothesis founded on known facts. The inflammable gas (continues he) exhales in great abundance from pyrites and other minerals, and especially from extensive putrifying marshes; and being perhaps ten times lighter than common air, will rise till it meets with air of the same lightness, and there form a *stratum* in calm weather, which being kindled by an electric discharge, will exhibit appearances agreeing very well with those of the meteor. 1st, A spectator will see a body of fire moving in the track of the *stratum*, and resembling a ball, because the part behind is consumed, while the parts before are not kindled. 2nd, Where the *stratum* divides, the ball will seem to do so into two or more, which after proceeding for a time in this manner will again unite if the *stratum* does so. 3dly, Where, instead of an horizontal bed of gas, there is a perpendicular column of it, the light will be stationary, exhibiting an appearance called in the North a fiery dragon, &c.

Mr. Jackson of Hutton-Rudby has also given a very curious account of these Meteors; as well as Mr. Burrow the proposer, Mr. T. Baker, Mr. Cowing, Mr. Glendenning, Mr. Roberts, Mr. Swift, and Mr. Wyrill, if room could possibly be found for them.

ÆNIGMATOLOGY.

Answers to the last year's ÆNIGMAS.

- | | |
|---------------------|----------------------------------|
| 1. An Egg. | 9. Buckles. |
| 2. A Name. | 10. The Ten Commandments. |
| 3. A Blush. | 11. Yesterday. |
| 4. A Mole. | 12. A Fowl-Carr, or Sedan-Chair. |
| 5. Biffextile-Day. | 13. The Rain-Bow. |
| 6. A Canary-Bird. | 14. Parchment. |
| 7. Northern Lights. | 15. Law. |
| 8. A Cock. | <i>Prize.</i> A Printer. |

1. *Rebus*, Vice. 2. A Guide-Post. 3. Sackcloth. 4. A Bride-Maid.
5. A Mansion. 6. A Maypole. 7. Sunday. 8. Goblet. 9. A Gentleman.

GENERAL ANSWERS.

I. By Mr. J. WYRILL, of Riccall near York.

All things are vain, the Royal Preacher cries!	
All things are vain beneath the azure skies!	
<i>Egg'd</i> on by vanity, we fondly aim,	1.
To raise ourselves an empty transient <i>Name</i> ;	2.
But <i>blush</i> if we a virtuous thought disclose,	3.
And like the <i>Mole</i> , which ever grov'ling goes,	4.
From earth and sense our wishes seldom soar!	
<i>Biffextile-day</i> you may as oft explore	5.
As the gay <i>snp</i> will raise his thoughts to heaven,	
Or, by forgiving, strive to be forgiven.	
The <i>birds</i> that <i>sing</i> or <i>crow</i> , the <i>northern light</i>	6. 8. 7.
Their Maker's pow'r display by day and night;	
While stupid, sottish man his time will waste,	
And searching pleasure loses all its taste:	
A trifling <i>buckle</i> can his thoughts employ,	9.
While the <i>commandments</i> quite neglected lie!	10.
On <i>yesterday</i> he no reflections makes,	11.
Nor for the future any measures takes;	
Orders the <i>gilded cart</i> to ball or play,	12.
His <i>rainbow</i> equipage there to display.	13.
The <i>parchment</i> records of their country's <i>laws</i>	14. 15.
How few attend to! while each eager goes	
The <i>printer's</i> daily papers to peruse,	Pr.
Tho' fraught with <i>vice</i> , with scandal and abuse.	Reb. 1.
The <i>guideposts</i> sell of party-rage and faction,	2.
The <i>sackcloth</i> cloak of envy and detraction.	3.
Nor <i>bridemaid's mansion</i> , nor the <i>maypole</i> game	4. 5. 6.
Can slander 'scape; nor <i>sunday's</i> sacred name,	7.
The drunkard's <i>goblet</i> restrain or shame.	8.
Happy am I one <i>Gentleman</i> to know,	9.
Who's free from censure as from vice below;	
And many sure who grace <i>Diaria's</i> page,	
In envy, spite, and malice, ne'er engage.	

Go on sweet birds, and teach the world to know,
Religion, virtue, truth, is bliss below.

2. On a Country-Life. By Mr. JACKSON, of Hutton-Rudby.

Beatus ille, qui procul negotiis. Her. 2d Ep.

<p>Blest he l who seeks not fordid gains, But a good name and peace obtains : Enjoying a few acres, round A mansion neat, of fertile ground Where routing moles are seldom found : Hath cocks and hens and eggs in store, And <i>blushes</i> not to feed the poor. Who from a jug of <i>leap-year</i> ale, To pour a goblet will not fail ; But like a gentleman, his friend Will treat, and ever strive to mend. The laws his guide, from <i>wice</i> to swerve, And the <i>commandments</i> to observe ; No <i>sedan-chair</i> to church he needs, But there on foot each <i>sunday</i> speeds :</p>	<p>Will ev'ry morning early rise, And with the birds salute the skies : And if a fair of honest fame, Or such as the Apulian dame He wed, the <i>bridemaids</i> next attend, The rose or <i>buckles</i> graces lend, And glitter as the <i>northern light</i> Or <i>rainbow</i> in its splend d height, Or garland on the <i>moypole</i> high. With tow'ring top as in the sky. The happy pair, next morning on, Bless <i>yesterday</i> that made them one, When they on <i>parchment</i> seal'd and sign'd [twinn'd. And Hymen both their hearts en- The news is to the <i>printer</i> sent, And they in <i>sackcloth</i> ne'er repent.</p>
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3. Advice to Bachelors. By Mr. W. WATKINS, Eng. Sol.

<p>'Tis eleven years to-morrow Since I bade adieu to sorrow And at Hymen's hallow'd shrine Held my Chloe's hand in mine. Farewell days of toil and anguish, Nothing now can make me languish. Happiness and scenes of pleasure, Boundless as <i>Canary's</i> treasure, Now continually repair, To crown the ever constant fair. What to me are eggs or <i>buckles</i>, <i>Northern-lights</i>, or ruffled knuckles, <i>Mole-bills</i>, <i>parchment-bond</i> or <i>blushes</i>, <i>Rainbow</i>, <i>leap-year</i>, <i>cart</i> or <i>ruines</i>, Subtile names, fat <i>cock</i> and <i>bacon</i> ? Silly trifles all forsaken. Know, the great command was giv'n,</p>	<p>By Supreme of earth and heav'n, To wed, increase, and multiply, And every obstacle pass by. But a set of useless creatures, Only human in their features, Ridicule, and overawe The justness of the sacred law : At marriage laugh, condemn untry'd, Hymen's antient rights deride ; Mingle of the force of evil, Born on passions quite uncivil, Far beyond the bounds of reason, Waste away the blooming season ! But, O bachelors ! beware How ye wrong the virtuous fair : Lest a sad <i>impression</i> blast All your blooming hopes at last.</p>
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4. Billy sent to school. By Mr. G. BRENTNALL.

<p><i>This morning comes once in four year,</i> So haste away to school, my dear, The <i>show'r</i> is o'er, the <i>bow</i> how bright ! How awful was the <i>north</i> last night ! With <i>Dicky's</i> <i>fowl-cart</i> pray don't flay, Nor the <i>mole-catcher</i> in your way ; Nor seeking <i>bird eggs</i> in the bush, For if too late you'll surely <i>blush</i>.</p>	<p><i>Time past</i> can't be recall'd you know, Wake early as the <i>cock</i> shall crow : Buckle your shoes, and be intent, (Printed on paper or <i>parchment</i>) Keep the school laws, let none you blame, [n. me : And God's commands, get a good Then you'll be, Billy, when you die, Happy and glorify'd on high.</p>
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5. Gripus, part the 1st. By Mr. T. BRADBURY.

At *Fowleart*, that I think's the name,
 A place of small renown,
 If I be wrong, the *printer* blame,
 He said that was the town :
 There liv'd however, I'll maintain,
 A sordid son of care,
 Who egg'd by strong desire of gain
 To London would repair. [the morn,
 Thrice crow'd the *cock*, fair *blubb'd*
 A *rainbow* deck'd the sky, [torn,
 When Gripus, by strong passions
 Thus to himself did cry.
 And must I leave thee, lovely hoard,
 First object of my heart,
 In thee my hopes and joys are stor'd,
 How can I then depart. [deep,
Mole-like beneath earth's surface
 I've work'd for thee a place,
 My eyes can never cease to weep,
 While absent from thy face.
 In *leap-year* last, as *yesterday*,
 The plan I first design'd,
 To haste to town, and bring away
 Some *parchments* left behind.

He said, and weeping kiss'd them
 Tho' in the *law* it stands, [o'er
 Thou shalt not any thing adore
 That has been made with hands.
 So deep immur'd, with aching breast,
 Like some poor *bird* bereav'd
 Of all the darlings of its nest,
 Just so old Gripus griev'd.
 Equipp'd at length with coat and wig,
 Of thirty years good wear,
 'Tis true, they were somewhat too
 And grown a little bare. [big,
 A leathern thong did *buckles* spare,
 His pockets stuff'd with bread,
 Which he for months had cribb'd with
 As day by day he fed. [care,
 Thus fitted out, he trudg'd away
 On foot, expence to spare,
 But ah ! too soon departs the day,
 And wakes anew his care.
 Dark had it been, but in the sky
 The *northern lights* appear,
 Fear rack'd his soul, but ask you why?
 You 'll see, perhaps, next year.

6. Reflections. By Mr. T. BAKER, of Nunceaton.

For good, wise ends unerring Might
 Created every thing aright.
 The egg by name contains the young
 Of the *canary* whence it sprung.
 Pleasing's the *blubb* of innocence,
 Tho' *mole*s are black and give offence.
 But the chief view of man thou'd be
 Preparing for eternity.
 Tho' *Simon* wedded blooming *Mary*
 The 29th of *February*, [must
 Like *dunghill cocks*, their bodies
 Return again to native dust ;
 As *northern lights* evanid be ;
 Yet souls shall last eternally :
 Their *buckler* is not to be driv'n
 To break the wise commands of
 Heav'n.
 Who *yesterday* saw not mis-spent,
 May meet the morrow with content.

And, seated in the *chair* of joy,
 The *printer's* libels may defy.
 Give me the man, whose lib'ral views
 Delight and harmony diffuse :
 Who acts on friendship's worthy plan,
 And does to all what good he can.
 Heav'n's *bow* still indicates that we
 Should live in love and unity ;
 And yet, how oft by *parchment* deeds,
 And *law* abus'd, the widow bleeds !
 By wicked fraud she out is hurl'd,
 Di'mond cut di'mond thro' the world.
 Yet tho' a day may seem so smile
 Upon the blackest heart of guile ;
 Yet soon the awful time appears,
 When life goes out with sighs and
 tears.
 But, Muse, forbear, the good and wise
 Have still God's fear before their eyes.

7. Rural Life. By Mr. A. GLENDENNING, of Morpeth.

Most happy of this transitory race, | Is he who calmly leads a rural life,
 Who

Who dwells secure in some sequestered
place, [strife.
Unknown to care, to envy, and to
The cock's shrill matin wakes him
from his rest,
To taste the sweet exhilarating gale,
Ere yet the rosy blush adorns the
east,
The *brealis* lights him thro' the vale.
The *brooding* sylvans scarcely leave
their dome,
Or the *canary* stretch his vocal string,
As riot's sons like *mole*s and bats creep
home, [new-blown spring.
He comes from rest, fresh as the
Careless for *buckles*, whistling o'er
the lawn,

8. The Game-cock and Mole.

As o'er the plain the *cock* estray'd,
In all the pride of pomp array'd;
A purblind *mole* was busy there,
Amid the mead her heap to rear.
And thus the cock address'd the mole,
While hot at work within her hole.
Thou sad mischievous lawless thing,
Blush at thy faults, that ruin bring;
It is thy work throughout the year,
To spoil the gardens every where.
The *northern light*, the pearly dew,
The *rainbow's* tints of brightest hue,
Mere *names* to thee, charm not thy
fight, [light:
Who scarce canst see the glorious
But justice shall, or soon or late,
Exert her pow'r, and seal thy fate.
So spake the cock amid his dames,
And thus the sleek-skin'd mole ex-
claims:
Thou silly *bird*, why all this noise,
From others faults learn to be wise:
And never blame, when lo! thou art

9. The Honest Man.

"Of mortals happiest he whose life's
upright," [light,
Egg'd on by virtue, his supreme de-
is to his Makers Name to give due
praise; [pays;
Nor *blushes* when he sacred homage
By this of rest secur'd debarr'd from
strife,

The *dialogue* has not forgot to say,
First by a mother taught, at reason's
dawn, [the day.
When hornbook was the labour of
in cheerful mood he spends his
lengthen'd years, [age,
At plough or cart the work of riper
Nor the fallacious *lawyer's* cunning
fears; [engage.
Resolgent *rainbows* more his mind
Who would not wish for a calm life
like this? [breast,
The acts of *yesterday* ne'er gall the
Imprinted virtue, like elisium's bliss,
Sooths every throbbing passion into
rest.

A Fable. By Mr. J. WALTON.

The greater villain at the heart.
For only *yesterday* at morn,
I saw thee filch another's corn.
And thou, and all to thee ally'd,
Wou'd spoil each garden in its pride.
Cover'd with *skin*, and fill'd with store
Of *eggs*, and placed at the door
Upon a *cart*, I lately saw
Thee perch to raise thy shrilly jaw;
And down came all the brittle ware,
And off stole thou with thievish stare.
But, what is worse than all besides,
The *printer* culls thee from thy brides,
To *buckle* to in warlike plight,
And kill thy brother in the fight.
And thou art willing, silly tool!
To break *commands*, and be a fool:
Then cease thy noise and learn of me
What pride would never let thee see.
Thus far the mole: the cock at last
Convicted stood, and look'd aghast.
So 'tis that men, the truth to smother,
Cry up the faults of one another.

By Mr. W. BOSWELL.

He can on *molebill* taste the sweets of
life.
For days *bissexile* he will not contend,
But glides serenely onto his life's end.
The dulcet *syloan* choir and *northern*
light,
Are proof to him of great Jehovah's
might.

Nor 'st the *cock* inflames his steady
brain, [plain,
But with steel *buckles* traverses the
As with the *decatalogue* he paves his
way, [terday,
Needs not repent for deeds done yef-
Will covet no *sedan*, no *rainbow* fear,
Parchment he needs not, but of *law*
aware;
Trusting in his uprightness, he defies
The *printer's* libels prone to *vices* and
lies.
As virtue is his *guidopost* from above,
He heeds not *jackalosh* or the *bride-*
maid's love.

To *mansons* fine, or *maypole* lays no
claim, [aim.
A well-speak *sunday* is his highest
My stars above, whose lustre far
outvies, [eyes,
The brightest *goblet* e'er behold with
Where'er I am, if on you tempe-
rate plain, [man,
The humble servant of some *gentle-*
"Or where the scorching sun in-
cessant rolls,
Or in the climate of the frigid poles,
Grant me devoid of strife a calm re-
treat, [compleat."
And life like his—then my request's

10. The Answers. By Mr. JOHN FILDERS, of Liverpool.

I hir'd no *sedan* *yesterday*, being winter;
But for a new *Diary* I went to the *printer*.
Found a *mole*, that within the cold earth makes its den;
And an *egg*, and *canary-birds* both *cock* and *hen*;
Also *streamers* that make the sky *blush* in the night,
And a *rainbow*, that for a few minutes looks bright.
The *law* and *commandments* without *parchment* written;
And *buckles* that many a finger have bitten.
The year seventeen hundred ninety and two
Is *bissextile* named, and 'tis certainly true
That according to rule, will be surely no more,
Except one, 'till the year eighteen hundred and four.

11. Distichs in Order. By Mr. PIKE HARDY, of Hickling.

In quest of <i>eggs</i> the youngest roves,	Some wear large <i>buckles</i> , others bands,
O'er verdant meads, thro' lofty groves.	As fickle fashion now commands.
A <i>woithv name</i> we shou'd prize more	Who <i>yesterday</i> did well employ,
Than aifers heaps of shining ore.	To-morrow better may enjoy.
But <i>blush</i> efi villains like the <i>mole</i> ,	For coach or <i>chair</i> the cocknies call,
The whole <i>leap-year</i> for mischief	When <i>rainbow</i> show'rs in London fall.
prole.	By <i>parchment</i> , paper, ink, and quill
<i>Canary birds</i> , with swelling throats,	Attornies oft their purses fill.
To harmony attune their notes.	Lavinius! you justly draw
When <i>northern lights</i> first deck'd the	The different uses of the <i>law</i> .
skies, [prize.	And Henry L-e in neat-disguise
The world was struck with great sur-	Wraps up a <i>printer</i> for the prize.
While mortals sleep their time away,	So are they all before your eyes.
The <i>cock</i> proclaims the new-born day.	

12. Thoughts on the return of Spring. By Mr. BURROW.

Hail blooming, odoriferous, healthful spring!
What *printer* or what painter draws like thee?
Their's are the *name*, *law*, *parchment*, not the thing;
But thine the *egg*, the *bird*, the plant, the tree.
Ye *blushing* beauties of the youthful year,
That ope your fragrant blossoms to the day,

That clad in all the pride of Spring appear,
 And steep'd in dew your silken leaves display :
 Tho' nature's richest vestments you adorn,
 Sparkling like diamond-buckles to the fight,
 You're but the joys that yesterday were born ;
 And fade like *Iris*, or the northern light.
 The feather'd songsters, the cart-drawing train,
 The village cock that hails *bissexile* day,
 At the appointed season quit the plain,
 For in few years all vanish and decay.
 Then let not Fancy, ever varying dame,
 Mislead in devious tracks of wild deceit ;
 Let Reason's just commands, and honest Fame,
 Lead on to light and Truth's desir'd retreat.
 For ever changing, yet in change the same,
 Age wastes the body with unseen decay :
 But just and good, that spark of heavenly flame
 The Christian soul shall bloom in future day.
 Relentless death no more his baleful dew
 Shall shed on those safe landed on that shore ;
 But pleas'd Reflection will her themes renew,
 And smile when grief and ruin are no more.

Room will not admit of the ingenious general answers by Mr. *Boyers* of Horncastle, Mr. *J. Cowing* of Newcastle, Mr. *John Thomas Hughes* of Cotherstone, *T. J.* of Sebergham, *Juvenis* of Ousebridge School, Mr. *S. Oliver* of Lutterworth, Mr. *T. Nield* of Hawarden, Mr. *J. Pegg* of Kegworth, and Mr. *W. Swift* of Stow.

ANSWERS to the PRIZE ENIGMA, REBUSES, &c.

1. The Weatherwise Birmingham Almanack Maker. By Mr. BAKER.

As I with strange characters all things set out,
 And customers think me a wiseman no doubt ;
 Tho' in truth I am wrong every month in the year,
 And when I say *wet*, it proves pleasant and fair.
 So I constantly blunder both summer and winter,
 And, with impudent face, lay the blame on the printer.

2. By Mr. J. TWEDDLE, of Kilvington.

Permit me, first, to name your prize, | For if the truth I chance to miss,
 That seem'd so dark before my eyes, | I surely may depend on this,
 And puzzled me all winter : | It will not reach the printer.

3. Advice. By Mr. J. WARD, of Hinckley.

Wifely awake in early morn, | O shun the harlot's deadly snare ;
 O'er printers works your minds adore | Let truth and virtue be your spell,
 With science, and of Vice beware, | And may you follow it full well.

4. By CENSUS, of Stockton upon Tees.

Tho' <i>Læ</i> , well vers'd in mystic wiles,	<i>Levinus</i> , on wings of fame,
The printer's praise unrival'd sings,	These my first lays with candour
On him the Muse propitious smiles,	view,
And blooming wreaths of laurel	It surely is my utmost aim,
brings;	To be approv'd of such as you.

5. To the Printer. By Mr. FIELDS of Liverpool.

By the many new printers in diary made,
 I fear you will very much hurt your own trade,
 From the Editor soon you 'll but get little self,
 Now you've found him with printers, he 'll print for himself.

6. Address to one of his Pupils. By Mr. T. NIELD, of Hawarden.

Of <i>vice</i> beware, O gentle youth!	But then on <i>Sundays</i> , oh! beware,
And guide your thoughts to virtue,—	And to them read a solemn pray'r;
truth.	Let goblets cease, and drunkards go,
The naked <i>clotbe</i> , the poor befriend,	Nor e'er a bad example show.
And from your <i>manfion</i> potions send.	Then you, young <i>gentleman</i> , will be
Grant, on the first of gentle <i>May</i> ,	Prepared for eternity.
Your men and maids to dance and play.	

7. On his Birth-day. By Mr. D. ROBERTS, of St. Columb.

Years twenty-one since first my ar-	But grieve to see the lot on <i>Sunday-</i>
teries play'd, [part convey'd,	night, [fight!
And quick'ning influence to each	Empty the drunken goblet, hateful!
If I look back on my past scenes of	Regardless of his <i>manfion</i> or his call,
life, [plaguing strife,	Who placed the <i>band-wristing</i> on the
Now plung'd in ills, now vex'd with	wall.
Tho' young in years, in works la-	Ye stupid sons of folly, O beware!
borious I	Humble yourselves in <i>sackcloth</i> meet
May truly say, that many I outvie	in prayer. [precious blood
Of riper years: for know I'm doom'd	Think, turn, confide in him, whose
to toil, [reap the spoil.	A ransom is: his work was doing
In earth's dark womb, while others	good. [span,
But far from grieving at relentless	O may I then so use my earthly
fate, [elate,	Whether I wed or live a <i>single-man</i> ,
I read the Diaries with a mind	Be it my hope, my trust, my care,
Can without <i>vice</i> see <i>bridemaids</i> on	that I
May day, [gay:	Another life enjoy beyond the sky.
Dance round the <i>maypole</i> , innocently	

New ÆNIGMAS to be answered next YEAR.

I. ÆNIGMA 583, by ASTICUS, of Bingham.

I'll not in enigmatic guise,	Nor am I hydra or the sphinx,
To puzzle both the weak and wise,	Count him a blockhead who so
Describe myself of monstrous shape,	thinks; [nigh,
Resembling either bear or ape;	Yet not too bold come not too
	Far, far from me let children fly;
	Let

Let aged, and let drunken men,
Beware my dark and dismal den,
So shall they 'scape a cruel fate,
Nor grieve their friends when 'tis
too late.

And yet I ne'er was known to kill,
Nor ever shall from principle;
If I damp out the flame of life,
And rob a husband of his wife,
If men or beasts become my prey,
The fault's not mine, incautious they,
'Tis fate, 'tis folly, or 'tis chance,
'Tis rashness, or 'tis ignorance.

Observe me well, and you 'll agree
Mankind is much oblig'd to me;
My neighbours oft around me stand,
And take me kindly by the hand;
Both men and maids a comely bevy,
Attend at stated times, my levee,
And, what few ministers can say,
I send all satisfy'd away.

Diseases too I sometimes cure,
Well if some faints were half so
pure;

And he has little cause to fret,
That owns me for his epithet.

Readers, once more to try your wit,
I am akin to *William Pitt*;
Tho' lowly I, tho' lofty he,
The same our birth and pedigree,
As for our names without more fuss,
Tho' different they're synonymous.
When fortune, that blind fickle
wench,

Drives cousin Billy from the bench,
And if she will to-morrow let her,
So in his room she place a better,
May honest Britons all agree,
His plans have ended, or d'y'e see,
Were meant at least to end in me. }
Well, gents, now sure you know my
name

But if you don't perceive the same,
And yet wou'd know the reason why? }
'Tis 'cause you're not so deep as I;
Your judgment should be clear and
cool,

As I am form'd by nature's rule.
And yet, my friends, there's little fear,
You 'll guess me ere another year;
'Till then I wish each gentle dame,
Each rival for *Darian* fame, }
One meaning of my hidden name.

2. *ÆNIGMA* 514, by Mr. JOHN WYRILL, of Riccall.

Attend, dear gents, a drooping wea-
ry slave, [crave;
Pity I beg, and kind assistance
Such woes as mine would melt a
heart of stone, [my own.
At least, I'm sure they often melt
Egyptian bondage ne'er could equal
mine!

Confin'd, for thee, dear liberty, I pine,
Under a tyrant rigid and severe;
Who seldom rules by love, but oft
by fear: [will put,

Such burthens he on pygmy slaves
As better far would with Goliath suit:
His stern decrees he punctual sees
obey'd, [scorpions laid.

Else on his slaves are whips and
Besides me abject, many a simple
elf, [himself

All hate the tyrant, tho' he prides
On our submission, and will oft avow,
'Tis for our good when he bestows a
blow.

Sometimes in smiles he clothes his
ruthless face; [the place
Then heartfelt joy a moment glads
But soon, alas! succeeds a rugged
frown, [are flown,
Then joy and pleasure instantly
And direful apprehension fills each
breast, [ment's rest.

And cries and tears succeed the mo-
'Tis true some slaves are treated less
severe, [equal fear,

But these are fav'rites, and with
We dread those missions, whose in-
sulting pow'r

Is chiefly us'd ovr happiness to sour;
Yet such our hearts, we each cou'd
with their place, [grace.

That we might tyrannize with equal
Dear gents, would you our slavery
behold;

Look back to what you were in days
of old.

3. ENIGMA 515, by Mr. S. OLIVER, of Lutterworth.

In gorgeous pomp and youthful pride, I grac'd my beauteous mother's side, From thence by bloody man was torn, Mid cries of parent now forlorn: My woes began, my case how hard! From cheerful day was then debarr'd. If you Calcutta woes conceive, How I am us'd you may believe: For worse than they, or galley slave, I'm bound with hundreds in a cave. Such torments hardly ever known,	The cauldron fierce, and torrid zone I brave, then slay'd and mangled sore, My entrails from my body tore; My tongue is slit, and now I talk: Ere I stand, I cannot walk. In rostrum built on purpose for me. In certain hands most men abhor me. 'Tis said, I both can kill and save, Altho' myself am but a slave. Some hate my actions, some com- mend, [friend. I'm, Gents, your servant and your
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4. ENIGMA 516, by Mr. JOHN FILDEN, of Liverpool.

Give ear, kind Gents, while I to you [through, Relate the scenes that I've gone Then find me out or rack your brains, And take your labour for your pains. The ladies you may plainly see, Are highly pleas'd to meet with me. So pleas'd they don't their fondness check [neck. But take and clip me round the	Sometimes upon a horse I ride; At others, thro' the waters glide. By cooks I'm like a turnip boil'd, But if they roast me I am spoil'd. 'Twere well would some of me be- ware For thousands daily I ensnare, And thousands too I guard, or they From you would quickly go astray.
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5. ENIGMA 517, by Mr. J. WALTON, of Allendale.

Room, room, ye false Diarian bards, Here comes a frisking blade; Who's nimble, neat, and all complete, To serve an honest trade. I'm sometimes here, and sometimes So prone am I to roam. [there, But if you'd know the whole of me, I seldom go from home.	Quick thro' the lawn, I wing my way, My master's mind to please; But when I've done, I must return, So I get little ease. More might be said, but I'm afraid The elf will shew his nose. Well may ye fare, until next year No more I will disclose.
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6. ENIGMA 518, by Mr. W. LEE, of Sheffield.

In every age from time to time, In every city, town, and clime, I various shapes and ways pursue, And cheer full many a daunted crew. The merry dames, maids great and small, Nay grooms on my assistance call; I thousands of a certain race, Support and guide in swiftest chace.	My voice is terrible to hear, Strikes some with courage, some } with fear, [year. I've slain ten thousands in one In realms of Prester John, I'm found Belov'd by all the country round. Of greater travels Anson never boasted, [coasted. For I all quarters of the globe have
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7. ENIGMA 519, by Mr. W. SWIFT, of Stow.

Compos'd of dark and light, And seen both morn and night,	But never at noon-day; Ye Gents, what am I? Say.
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8. ENIGM.

ON ENIGMA 520, by Mr. GEO. BRENTNALL.

Warrior bards, you one behold
 Bester'd for silver, not for gold.
 His spangled robe all torn before,
 Defil'd with dirt and red with gore :
 Defam'd, reproach'd, bely'd, confin'd,
 How hard it presses on the mind !
 When basking in the sunny beam,
 How he cou'd then of glory dream !
 But good from ill may sometimes
 spring,
 And of a peasant make a king.

But great in pow'r, ungrateful friends,
 Whom great distress for succour sends,
 How generous this is ! to forgive,
 And let the guilty wretches live :
 Nay more, with blessings crown their
 days,
 Teach, by example, wisdom's ways,
 And yet he was no more than man,
 You may believe it if you can,
 Tho' kept for ages above ground,
 When death and heav'n the hero
 crown'd.

9. ENIGMA 521, by Mr. W. BOSWELL, of Riccall.

From ancient times I had my name,
 To man I owe my birth,
 The brutes make up part of my
 frame,
 The rest springs from the earth.
 It is well known I'm of great use,
 My faults too I must own,
 Therefore, dear Gents, grant me
 excuse
 And all my wishes crown.
 Always while I consume my food,
 My countenance looks bright,
 But afterwards I change my mood,
 And look as black as night.

Sometimes when man's in dire dis-
 tress,
 I him from dangers free,
 And oft the thief can't gain access,
 Without the aid of me.
 Often I flaunt with shining beaux,
 And persons of great name ;
 As oft to obscure places go,
 With peasants of small fame.
 Life's chief support in man or beast,
 Is my chief enemy.
 'Tis in grim night I go from rest,
 The sun I seldom see.

10. ENIGMA 522, by Mr. T. BRADBERRY.

My fire ! but birth and pedigree are
 vain, this explain.
 France, and the 'Rights of Man' will
 O Liberty ! thou dear abused name,
 Shall rapine, murder, lay to thee a
 claim ? [free !
 Must men be savages to make them
 What then society becomes of thee,
 No more alas, wou'd be the use of me.
 Stedfast to truth, I faithfully each day,
 By precept plain, shew erring man his
 way.
 Or men of science and of business too,
 Would frequent doubt the track they
 should pursue.
 But where's the glass (say, artists, if
 ye know) [thew ?
 That can by night my useful maxims
 Save when the moon, in splendor
 deck'd so gay,
 Reflects a light but little short of
 day ;

'Tis then perhaps some lovesome
 youth I aid, [tant maid.
 Who steals to find his far, far dis-
 But lo ! the clowns as I my arms
 extend [friend,
 To shew how willingly I'd be their
 Impatient stare, not knowing what
 I say, [astray.
 Give me a curse, and go no doubt
 But let me whisper, for lo ! one ap-
 pears, [for years :
 Who has been deem'd a man of wit
 He calls me parson, with what jus-
 tice, say ?
 Because like them I teach lost man
 his way. [his head,
 True he rejoins, and archly shakes
 You shew the way you never mean
 to tread. [his mind ?
 Ask you why satire thus employs
 Because his rector takes his tythe in
 kind.

It may be so, but what is that to me, | Who never cost him the most trifling
fee?

11. ÆNIGMA 523, by Mr. D. ROBERTS.

To you, Diarians, the lays belong,
To you we pay this tributary song.
If from mankind we first receiv'd
our birth, [on earth,
Or by immortals first were brought
Imperious man our dictates must
obey, [sway.
And own the force of our extensive
See round the globe our matchless
pow'r extend, [friend.
We some depreciate, and some be- | All ranks and stations to us have
recourse: [the source.
Of wisdom, learning, we are deem'd
We tell the wonders antiently begun,
Or how the planets circle round the
Sun. [Pope,
Peruse the works of Milton, Gay and
We gave their warmest wishes ample
scope. [befriend;
A thousand diff'rent ways mankind
And on us arts and sciences depend.

12. ÆNIGMA 524, by Mr. T. NIELD, of Hawarden.

While soaring fancy is upon the wing,
Make good my wish, Apollo, touch
the string! [roar,
See here I am, where foaming billows
Or tempests rise, and dash from shore
to shore; [sail.
Extended I maintain the rude as-
Alas! for England, if I chance to fail:
Ill-shapen fortune would afflict each
face [case:
One general woe, become a general
But may we ne'er behold this dread-
ful scene. [serene.
So turn your eyes to something more
And now behold me in a song re-
treat, | Mid love and joy and harmony com-
plete.
Perhaps on me some soft delicious fair,
Reclining lies as rack'd with careful
care.
While some in love turn up the lan-
guid eye, [heave a sigh.
Or spread their hands, and seem to
But see me now in quite a different
scene, [dant green,
See beauteous nymphs upon the ver-
And vocal shepherds with their warb-
ling reeds, [liant deeds.
And warlike heroes fam'd for va-
But I'm the base and furbace of the
train, [explain.
So to the world my name and worth

13. ÆNIGMA 525, by Mr. J. T. HUGHES, of Cotherstone.

From heaven to earth I stalk with
mighty stride, [wide,
And o'er the world extend my empire
To prove the justice of this observation,
That in each breast some trouble
keeps its station. [ev'ry grace,
Mistled by shew, some think that
And every charm adorns my smiling
face. [are with child,
And yet some say, when maidens
By me, curst me, they're ruin'd and
desil'd. [boy appears,
Nine months elaps'd, the chopping
And I conduct him thro' revolving
years. [Tyburn tree,
When justice brings the rogue to
He blesses all his friends, but curses
me. | I'm fraught with many ills indeed,
'tis true, [in you.
Yet often blam'd when all the fault's
Should sordid Gripus lose his store,
you'd find, [mankind.
He'd soon call me the bane of all
When eager armies meet upon the
plain, [obtain.
Each think thro' me the battle to
When Catiline, with all-conspiring
hand, [band;
Would ruin Rome, and her ennobled
I check'd his wild ambition at a word,
And sheath'd within him the aveng-
ing sword.
When Trojan Hector with his
mighty force, [course,
Oppos'd Achilles' spear's unerring
Twas

'Twas thought my arm the shaft	If right you do, you surely praise
with fury sped,	yourself, [elf.
And laid the hero by the hero dead.	If wrong, you curse me for a stupid
Whate'er you do, if bad, you quickly	Seven chosen champions shout aloud
know [the blow.	for fame, [servant's name.
Whom to accuse, 'twas I who gave	And in black blood announce your

14. *ÆNIGMA* 526, by Mr. A. GLENDENNING.

When all these massy spheres were	Whose ebon wand submits me to his
bid to move, [courts above;	sway, [and decay.
And brighter myriads fill'd the	And in whose reign I'm languid
My birth commenc'd: or, as some	But deign my friend thine honour'd
sages say, [est day,	head to shew, [renew:
I broke the ancient bounds of bright-	See my pale visage, and my force
The mandate past, began my desti-	Come vivify my vitals—once again,
tin'd race, [boundless space.	A tribe awaits to hail in dulcet strain
Pass'd orbs and orbs, and flew thro'	Thy wish'd return, and praise the
He comes: of whom the poets proudly	mighty pow'r, [sable hour.
sing, [whence I spring:	Who brought me through the sad
Perhaps, you'll say, the source from	Yet ah! how short and transient
But be this as it may, we shan't con-	their joy!
tend	Soon will grim death their harmless
About priority, he is my friend.	mirth destroy.
When he is absent how I droop and	Not so with me, and those that
pine! [sign.	faithful prove. [above.
And all my legal rights to one re-	We shall for ever shine on thrones

15. *ÆNIGMA* 527, by Mr. T. BAKER, of Nuncaton.

A wellknown letter'd friend here introduce,
 If not from Carthage, or old Syracuse;
 Most part a foreigner, for, now-adays,
 Who like a stranger meets with public praise?
 Yet I from Britons boast of pedigree,
 And by their suff'rance smile with royalty.
 A soft demeanor pleasing is you own,
 And modesty adds lustre to the throne;
 Yet when I do not boldly shew my face
 I raise suspicion, fall into disgrace:
 I'm like a spavin'd racer cropt and sold,
 And now were I mine hardship to unfold——
 But let's forget all earthly sorrow——See!
 Creation smiles anew, in form of me
 Ten thousand rise with human features bright,
 Dispensing gladness thro' the realms of light.
 Hail'd as a welcome fav'rite I appear,
 From base deformity and passion clear.
 And now perfection to my shape is given,
 I reverenc'd am like something sent from Heaven.
 Officious mortals! what am I, that ye
 Should pay such homage or such court to me!
 Wonders indeed I frequently have wrought,
 And am in substance far surpassing thought;

I've foil'd huge conquering armies, and their fleets,
 Yet oft am kidnapp'd in the public streets.
 I oft produce festivity and mirth,
 Yet turn to foes the dearest friends on earth.
 I make the silly wise, the little great,
 And deck the fool with trappings of the state.
 I roam at large, still am a captive held,
 Thence light and charity are both expel'd,
 Yet I've such pow'r it every one delights,
 I'm captain o'er the Swarthians, and the Whites.
 And if exchange of prisoners there be,
 Of such as are the lowest in degree,
 Eight and one thousand must be given for me. }
 Now when I'm made secure by watch and seal,
 To pity's suit be kind and me reveal.

16. PRIZE ÆNIGMA, by OTTIE.

Not all the gems found on Golconda's coast,
 Not all the riches Croesus e'er could boast,
 Not all the pow'r great Alexander gain'd,
 When he the Persian diadem obtain'd;
 Not all the skill the flagirite possess'd,
 Thro' all succeeding ages so carcass'd;
 Not all that's beautiful, belov'd, and fair,
 Admir'd and envied, far-fetch'd and rare,
 If void of me, can satisfy, the mind:
 For I'm the prize indeed! O search and find!

Yet men neglect, what if well understood,
 They would most wish for as their greatest good;
 And wisely, as the Cock a grain of corn,
 Prefer to jewels which crown'd heads adorn.

But as unworthy of the least respect,
 The lovely Celia treats me with neglect:
 Indeed ungracious forms I sometimes take,
 When in disguise I my appearance make:
 Cover'd with rage one while I'm seen; anon
 Helpless in bed with pain of broken bone;
 In prison, and in fetters now confin'd,
 Then, like a begging lazar, poor and blind,
 Or wand'ring as an outcast of mankind: }

Yet no one ever truly me possess'd,
 Who did not find himself completely bless'd.
 Since not confin'd to where men's woes abound.
 But with content and happiness I'm found.
 And Celia, tho' perhaps she will not crave
 My comforts, may be well assur'd I have
 A better title to her warm desires,
 Than the gay fopling she so much admires.
 And let her know this farther, if she deign
 To seek me with such zeal as to obtain;
 In love and pity to her matchless charms,
 I'll save her from that worthless charmer's arms.

NEW REBUSES, &c.

1. By *Serjeant SIMPKIN.*

Three syllables my name expose,	Possess'd by beasts and butcher-men.
But call me two, I'm things two	Now either way my two or three,
more,	Compounded will one virtue be:
The first at barber's shop is found,	Admir'd, but not by all possess'd,
Wherewhims and merry tales around;	Which those who boast of have the
My second is a stinking den,	least.

2. By Mr. JOHN WARD, of Hinckley.

Initials of what Brisons prize,	Of the superlative of old,
Of what all shun, if they be wise,	Will a Diarian's name unfold.

3. By Mr. H. MELLANBY, of Stockton upon Tees.

Black, nauseous first, when it ascends,	A name more common than my next,
It makes my whole turn round;	Is hardly to be found.

4. By PHILANDER, of Cocker mouth.

Take my two first, you certainly	My next with various lustre shews
will find,	[kind its head; [blaze,
A quintessence of most delicious	My whole is counted the meridian
When sable night the earth shall	Of human pleasures, and of happy
overspread,	days.

5. By Mr. J. WALTON.

What merit claims, if merit had its	But if revers'd, to keep me from her
due,	[to view; heir [stant care.
Direct you 'll find me, when expos'd	Is Thrifty's great concern, and con-

6. By Mr. J. FIELDS, Schoolmaster, Liverpool.

Quite attentive 's my first to false tales that are told,
 And, as Moses relates, dwelt with Adam of old.
 In my second each year many thousands are laid;
 And how transient! alas! is all earthly parade!
 In this life, though a person be ever so droll,
 He will never once joke when he is in my whole.

7. By Mr. JOHN WYBELL.

My first sets bounds to what is most unruly;
 My heart oft holds the thing you prize most truly;
 My whole contains my first—pray, Gents, discover
 What 's often us'd, when each writes to his lover.

7. By Mr. W. SWIFT, of Stow, near Lincoln.

My first draws out figures for most kinds of trade,
 And is made by my next, who 's a most shining blade,
 My whole works on barrels, and cuts them asunder.
 If this puzzles any one, 'tis a great wonder.

CXX. By Mr. *J. Jackson*, of Hutton-Rudby.

How are we to reconcile Gen. i. 27. God created man male and female; with Gen. ii. 5. there was not a man; and afterwards with Gen. ii. 7. and 22. man was formed of the dust of the ground, and the woman was made of one of the man's ribs?

CXXI. By Mr. *T. Baker*, of Nuneaton.

It seems the idea, or notion, of being saved by the sufferings, or merits of the Saviour, has led some people into an erroneous way of thinking. Q. Can any person, wilfully disobedient, regardless or neglective of moral duties, be entitled to salvation by the Christian doctrine?

CXXII. By Mr. *J. Ward*, of Hinckley.

Why were shepherds an abomination to the Egyptians?

CXXIII. By Mr. *John Thomas Hughes*, of Cothertstone.

What is the reason, that if any thing approach to hurt or terrify us, we make use of the interjection, *oh!* and this not confined to nation, or language?

CXXIV. By Mr. *J. Walton*, of Allendale.

Whether is disappointed ambition, or disappointment in love, the more insupportable?

CXXV. By Mr. *J. Ward*, of Hinckley.

In the livery-stables in London, also on the great roads, and other places, goats are frequently kept, which live promiscuously among horses; and it is well known there arises a disagreeable smell from those animals: why then are they kept there?

CXXVI. By *Agricola*.

Why are geese kept among cattle in rich feeding pastures?

CXXVII. By Mr. *J. Liddell*, of Habton.

What cause can be assigned for the long continuance of bright tracks on the surface of the sea, that ships make where they sail?

CXXVIII. By Mr. *W. Passman*, of Billingham-Academy.

Is there any difference in the weight of bodies at different places of the earth; if so, where is their weight a maximum?

CXXIX. By Mr. *J. Burrow*, of Bolton-Field.

What is it in the action of churning that causes a separation in the milk and butter; we know it is so, and by what means. Q. The cause?

CXXX. By Mr. *J. Burrow*.

In hard frosts some springs never freeze, and boiling water, exposed to the air to cool, will sooner freeze than cold water from some of those springs. Q. The reason of this?

ANSWERS

ANSWERS to the QUESTIONS proposed last year.

1. QUEST. 634, answered by Mr. J. HOLT, the Proposer.

Put $r=21009120$ feet the earth's radius, $a=2000$ the velocity per second with which the ball is projected upwards, g =gravity at the surface, x any variable distance from the earth's centre, t the time, v the corresponding velocity, and z =the height of the projection from

the earth's centre; then $\frac{247}{23}=21922560$ feet the central distance of

the top of the tower= b , and by the laws of attraction $v=\frac{247}{23}$

$sr^2x^{-2}\dot{x}$, the correct fluent gives $v^2=\frac{2sr^2}{x}-\frac{2sr^2}{z}$; but when $v=0$,

$x=b$ and $z=\frac{2sr^2b}{2sr^2-bu^2}=21990470$ feet, and hence it is easily found

that when $x=b$, $t=\sqrt{\frac{bz^2-zb^2}{2sr^2}}+\frac{z}{2r}\sqrt{\frac{2z}{s}}\times$ circ. arc whose co-

sine is $\sqrt{\frac{b}{z}}$, rad. $1=67''.95$ the time of ascent, and when $x=r$,

$t=256''.62$ the time of descent, and $324''.57$ is the time of its flight:

now, $59 \text{ min. } 50'' : 324.57 :: 47520 : 4296.26$ half the circumf. of

the tower's base, and 2735.08 its diameter; but $r : 21922560 ::$

$2735.08 : 2854$ feet its diameter at top, whence its solidity 5603470

million feet; again, $21922560 : r :: \text{radius} : \cosine 16^\circ 35' 52''$ the

sun's depression below the horizon when the clock struck four; then

having this, the sun's declin. and the hour from noon when the

sun's first rays shone upon the top of the tower, also the hour from

noon when the shadow of the tower was cast upon St. Peter's Church,

and the lat. and long. of St. Peter's, by spherics, the lat. of the

tower= $36^\circ 10' 35''$ N. and its long. 23° E. of the meridian of

London.

Messrs. Garnett, Glendenning, and Ryley, also gave answers to it.

2. QUEST. 635, answered by Mr. G. BARNES, of Wigton.

It is easy to conceive a scheme drawn wherein Z is the zenith,

P the pole, B the sun's centre when his upper, and A when his lower

limb touches the horizon; then the sun's apparent semi-diameter on

the 24th of May is $15' 52''$ nearly, $ZB=90^\circ 15' 52''$, $ZA=89^\circ$

$44' 8''$, $PA=PB=69^\circ 11'$, and $ZP=39^\circ 48'$: now, in the triangles

ZPA and ZPB , all the sides are given to find the angles $ZPB 117^\circ$

$38' 54''$ and $ZPA 116^\circ 39' 17''$, their diff. $59' 37''$ converted into

time is the first answer. And, by Simpson's Flux. art. 256. as cos.

of the amplitude: the secant of the latitude :: $15' 52'' : 29' 48''$

whose double $59' 36''$ =the alteration of the hour angle, so that the

two methods agree to a single second of motion. Messrs. Cowing,

Garnett, Glendenning, Leyburne, Ryley, and Watkins, also gave ingenious answers.

3. QUEST. 636, answered by Mr. Jos. GARNETT, from Mr. Redham's Academy, Richmond, Yorkshire.

In the spherical triangle formed by Z the zenith, P the pole, and ☉ the sun; put s and c for the sine and cosine of $P\odot$, $d = \cos. Z\odot$, and $x =$ the cosine of ZP ; then $\cos.$ of half $ZP = \cos.$ of $ZP\odot = \sqrt{\frac{1+x}{2}}$ a mean proportional between half radius, and

the versed sine of the supplement of $ZP = \frac{d - cx}{s\sqrt{1-x^2}}$ by Emerson's

Trigonom. 38. III.; hence $x^3 + \frac{s^2+2c^2}{s^2} \cdot x^2 - \frac{s^2+4cd}{s^2} \cdot x = 1 - \frac{2d^2}{s^2}$,

which put into numbers gives $x^3 + 1.08034017x^2 - 1.57447158x + .02693798 = 0$, the three roots of which are .8137775, .0173183, and -1.9114286 , the two first making the latitudes $54^\circ 27' 57''$ and $0^\circ 59' 32''$, but the third is too great to be of any service.

Messrs. Barnes, Buchanan, Cowing, Glendenning, Hornby, Kilburn, Leybourns, Ryley, Wailes, and Watkins, also gave true answers.

4. QUEST. 637, answered by Mr. J. CUNLIFFE, of Westthoughton.

Let $s =$ the side, and $p =$ the perpendicular of the polygon, $n =$ the number of its sides, and $x =$ the perpendicular of any concentric similar polygon; then, by the quest $p : x :: b - a : \text{the difference of the value of the land at centre of the field and at the side of the polygon whose perp. is } x$, which being added to the value at the centre gives

$a + \frac{x}{p} \times b - a$ the value at the side of this polygon, which drawn into $\frac{\pi x^2}{p}$ and the fluent found when $x = p$ gives $\frac{\pi p}{2} \times \frac{a+2b}{3}$ or the value of

the field is equal to its area drawn into $\frac{a+2b}{3}$, and the value in the first case of the proposed numbers is $480\frac{3}{4}$ and in the second $720\frac{1}{2}$.

The same answered by Mr. Jos. GARNETT.

The value of any field or other surface is evidently the same as the solidity of a body whose base is the area and height the value per chain, &c. of the field or other thing in question: thus, when the value per chain is uniform, the whole value = the solidity of a prism whose base is the area of the field, and height the value per chain. And if the value per chain vary uniformly from the sides where it is nothing to the middle or any other point where it is considerable, the whole value will be equal to the solidity of the pyramid whose base is the field and height the value per chain. If the value does not vary uniformly, the slant surface of the pyramid will not be a right, but a curved line. *Ex. gr.* the value of the field in question will be = the solidity of a body, whose base is the given polygon, and height b at the side, and a at the centre; i. e. a prism whose height is b , adding or deducting (as b is less or greater than a) a pyramid whose height is the difference between a and b . Therefore, putting $m =$ the area of the field,

the

the value is, by mensuration, when a is greater than b , $b + \frac{a-b}{3} \times m = \frac{2b+a}{3} \times m$, and when a is less than b , $b - \frac{b-a}{3} \times m = \frac{2b+a}{3} \times m$, which is the same theorem as the former, therefore is general. Whence, when $m=24$, $a=40$, and $b=10$, the value is 720 £. and when $a=10$ and $b=40$ is 480 £.

True answers are also given by Messrs. *Barnes, Park, and Ryley*.

5. QUEST. 638, answered by Mr. T. Moss, of London.

There is the very same probability of 50 points precisely happening at one throw with nine common dice as there is of fifty precisely arising in three throws with three of those dice. And it appears by the result of the general investigation of prob. 22d in Simpson's Laws of Chance, that, in this case, we shall have $12 \times \frac{11}{2} \times \frac{10}{3} \times \frac{9}{4} \times \frac{8}{5} \times \frac{7}{6} \times \frac{6}{7} \times \frac{5}{8} = 495$ the number of such chances, which being subtracted from 10077696 (the 9th power of 6) the whole number of chances for both happening and failing, leaves 10077201 the number of chances for failing. The number of chances for the happening of this event being 495, and 10077201 for its failing at any assigned trial; to find in how many trials, according to an equality of chance, it will happen *once*; by the theorem, p. 36. derived from the investigation of the 15th problem of the above-mentioned author, we have $\frac{1077201}{495} \times 1 = 3 + 1 - \frac{7}{10} = 14250.8$; therefore the event may, by equality of chance, happen in 14250 or 14251 trials = the number of pence the juglar has a right to expect before the proposed event happen.

The same answered by Mr. J. RYLEY, of Leeds.

Three throws with three dice being the same as one throw with nine; and as 13 exceed 9 (the least number that can be thrown) as much as 54 (the greatest) exceed 50, by the laws of chance 495 = the number of chances for 50 precisely, which taken from $6^9 = 10077696$ the whole number of chances, leaves 100077201. Now, put $a=495$, $b=10077201$, $pb=a$, s = the hyp. log. of 2, and n = the number of trials before 50 points come up; then, by prob. 15. Simpson's Laws of Chance, $n = \frac{5}{2} = 14100$ which at one penny each amount to 58 £. 15 s. 10 d. from which deduct his stake, and there remains 48 £. 5 s. 10 d. the gain on an equality of chance.

And in nearly the same manner is the answer given by Mr. A. Buchanan. The other answers sent were deficient.

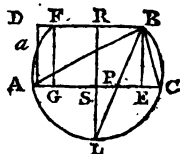
6. QUEST. 639, answered by Mr. J. HAMPSHIRE, of London.

Divide any given line DB in F, so that DB may be to DF in the given ratio of the segments of the base made by the perpendicular;

C 2

or

on FB describe a segm. of a circle capable of containing an angle equal to the given diff. of the angles at the base; bisect FB in R; from D demit the perp. DA, and from one of the points A where it cuts the circle draw AC parallel to DB cutting the circle in C, join AB, BC, and ABC is similar to the triangle required.



For, parallel to AD draw FG, RS, and BE; then, since $FR=RB=GS=SE$, $AS=SC$, $AG=DF=EC$, and $DB=AE$; therefore AE and EC are in the given ratio *per constr.* and the angle $FAB=ACB=BAC$, because the arc AF is equal to the arc BC.

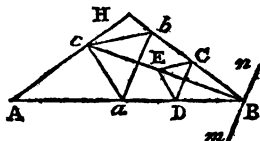
Limitation. When DA falls without the circle the prob. is impossible; when it touches it, the angle FAB is a *maximum*; and when it cuts it in two points, either of them may be taken. Moreover, as BP or PL to any side of the triangle ABC, so is the given bisecting line or prolongation to the corresponding side of the required triangle, which is therefore known.

And in a manner not greatly different is the answer given by Mr. T. Moss.

But Messrs. Barnes, Buchanan, Garnett, Glendenning, Holt, Howard, Kilburn, Park, Parnell, Ryley, Wailes, White, and Wilkinson, supposing the ratio of AP : PC and not AE : EC to be given, find a triangle similar to the required one, by taking AP : PC in the given ratio, making the angle BPC = the complement of half the given diff. of the angles at the base, bisecting AC in S with the perp. RL cutting BP produced in L, drawing a circle through the three points A, L, C, which shall cut PB in B, the vertex of the triangle ABC similar to the required one: for, then AP : PC in the given ratio, the angle $ABL=CBL$, because $AL=LC$, and the angle FAB the diff. of the angles at the base is equal to $FLB=2SLP$ = twice the complement of BPE = the given quantity *per constr.*

7. QUEST. 640, answered by Mr. T. WHITE, of Dumfries.

Geom. Anal. Suppose the thing done: through any point C in BH draw CD parallel to *mn* or *ab* cutting AB in D, draw CE parallel to *cb* and DE to *ca* intersecting each other in E; the triangles DEC, *abc*, are similar, and $DC : ab :: CE : cb$, also BDC, *Bab*, are sim. and $DC : ab :: BC : Bb$; therefore $BC : CE :: Bb : bc$, and they are about equal angles, conseq. B, E, c, are in a right line, *ergo solutum.*



Constr. At any point C in BH draw CD parallel to *mn*, on CD constitute a triangle similar to that given, and through its angle E draw BE till it cuts AH in c, through c draw *ca* parallel to ED and *cb* to EC, join *ab* and *acb* is the required triangle, having its side *ab* parallel to *mn* and similar to that given, as is easily seen from the analysis.

The

The same answered by Mr. J. HOWARD, of Carlisle.

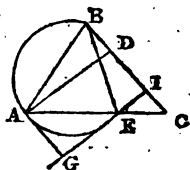
Constr. On any line CD drawn parallel to mBn and cutting BH, BA in C and D, make a triangle CED similar to that required to be drawn, through E draw Bc to cut AH in c, and draw cb, ca, parallel to EC, ED, respectively, join ab, so shall abc be the triangle required.

For, because of the parallel lines ac, DE and cb, EC, the trapeziums BDEC and Bacc are similar, and therefore the proportional lines DC, ab must make the angles EDC, ECD, respectively equal to the angles cab, cba, and ab parallel to DC parallel to mBn by construction.

Like answers were also received from Messrs. Barnes, Buchanan, Dalton, Garnett, Glendenning, Hampshire, Holt, Kilburn, Moss, Murney, Park, Parnell, Ryley, and Watkins.

8. QUEST. 641, answered by Mr. N. PARSELL, Land-Surveyor.

Make GI = the given line drawn from the given angle at the base, make GIB = the given angle it makes with the side, divide GI in E in the given ratio of the segments of the base made by the given line from the vertex, apply that given line from E to B to subtend the given angle EIB, on EB describe a segment of a circle capable of containing the given angle at the base, and draw from G the line GA parallel to BC, cutting the segment in A, through E draw AC cutting BI produced in C, join AB, and ABC is the required triangle.



For, drawing AD parallel, it will be equal to GI because ADIG is a parallelogram, and make the given angle with BC, the angle BAC is by constr. that given, and $AE : EC :: GE : EI$ the given ratio by constr.

Limit. When GA cuts the segment there will be two answers; when it only touches it AD will be a maximum, which is the limit of possibility.

The solution of Mr. J. SIDEPOTTON, of Haughton-Green.

Imagine ABC to be the triangle, draw EI parallel to the given line AD, and by similar triangles EI is to AD in the given ratio of EC : AC, therefore EI is given. Hence this construction.

With EI, the given line BE and the given angle BIE form the triangle BIE, produce BI both ways if necessary, upon BE describe a segment of a circle to contain the given angle at the base, produce IE till GI = AD the given line from the given angle; through G parallel to BI draw GA cutting the circle in A, from A draw AB, AEC, and ABC is the triangle required. There are two triangles when GA cuts, and when it falls without the circle none, answering the quest.

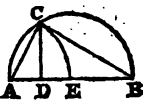
True and elegant answers are also given to this question by Messrs. Barnes, Cunliffe, Hampshire, Holt the proposer, Howard, Garnett, Ryley, and White.

9. QUEST. 642, answered by Mr. JOS. GARNETT.

Construction. Upon the given hypotenuse AB diam. describe a semicircle ACB, and upon A with the same radius describe the arc EC

EC cutting the semicircle in C, draw AC and BC, and ABC is the triangle required.

For, draw CD perpendicular to AB, then, from the solution to question the 13th following, DE ($=AC-AD$) is a maximum when the arc CE passes through the centre E of the semicircle, which it does in this case by construction.



The same otherwise, by Mr. J. DALTON, of Kendal.

Let ACB be the required triangle, and E the middle of the hypothenuse or centre of the circumscribing circle, CD perp. from the right angle upon the hypoth.; then, by the property of the circle $AC^2 = AB \cdot AD$ or $AD = \frac{AC^2}{AB}$, and $AC-AD = \frac{AC \cdot (AB-AC)}{AB}$

$\frac{AC \cdot EB}{AB} = \frac{AE \cdot EB}{AB}$ is in general equal to DE let AC or AE be what it will, and AB is given, therefore, when DE is a maximum, $AB \cdot EB$ is a maximum; the proposition then is reduced to this, to divide a right line into two parts whose rectangle may be a maximum, which will be when the parts are equal, as is well known. Therefore AC equal half the hypoth. AB, and $AC-AD=DE=\frac{1}{4}AB$ is the maximum difference.

The same answered by Mr. T. WHITE, of Dumfries.

Let ACB be the required triangle right-angled at C, and let CD be perp. to AB, let $AC-AD$ be a given line A, the maximum value of which is to be determined by the limits of possibility. By sim. triangles ADC, ACB, $AB : AC :: AC : AD = AC - A$, therefore $AB : AB - AC = EB :: AC : A$, ergo *solutum*, no more being required than to make the rectangle AEB the given one $AB \cdot A$, the maximum value being when it is a square, or $BE = AE = AC = \text{half } AB$, and the triangle ACB half an equilateral one.

Mr. JOHN HOWARD's Answer.

In the required triangle ACB, $AB : AC :: AC : AD$; and $AB : AB - AC :: AC : AC - AD$ a max. per quest.; or, since AB is given, $AB - AC \cdot AC$ is a maximum. Whence, by Simpson on the Max. and Min. $AC = \frac{1}{2}AB$.

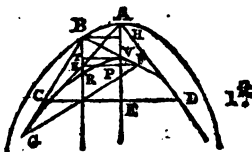
Fluxionarily, by Mr. COWING, of Newcastle.

Put $AB = a$, and $AC = x$, then is $x - \frac{x^2}{a}$ a maximum, per question, fluxed and reduced gives $x = \frac{1}{2}a$.

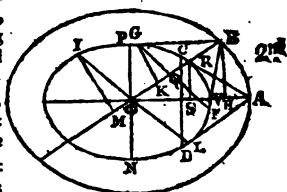
Ingenious answers are also given by Messrs. Barnes, Buchanan, Cook, Cunliffe, Hampshire, Holt, Glendenning, Kilburn, Leybourn, Liddell, Mest, Parnel, Ryley, Sidebottom, Wailes, Watkins, Wilkinson, and Fidelio the proposer; but the above are sufficient variety. If the angle ACB be not right but oblique, the problem is no longer plane but solid, producing a final cubic equation.

10. QUEST. 543, answered by Mr. GEO. BARNES, of Wigton, Cumberland.

If from any number of given points A, B, tangents AC, AD, and BG, BF be drawn, and the points of contact CD, GF joined; then, if all the triangles ACD, BGF be equal in area, the loci of all the points A, B, will be conic sections similar to the given one.



Demonstr. for the parabola. Let AE be the principal axis, BH perp. to it from any point B of the locus, VI a tangent at the vertex meeting BR parallel to AE in I, FK and BH parallel to VI; then, by the property of the curve $BH^2 = L \cdot IR$, whence $L \cdot HF + BH^2 = L \cdot BR = FK^2$; but $FK \cdot BK = \frac{1}{2}$ the area of the triangle GBE, and $HV \cdot L + BH^2 \cdot 3 = L^2 \cdot \frac{1}{2} \text{ area}^2 = AV^3 \cdot L^3$ per parab.; therefore $L \cdot HP + BH^2 = L \cdot AP$, or $L \cdot AH = BH^2$, and the curve is a parabola.



For the ellipsis and hyperbola. The other lines remaining as before, draw IO conjugate to RO, IM perp. to RO, GK parallel to IM, and PO the semi-conjugate diam.; then, by similar triangles, and the nature of the curve $OR^2 = \frac{OV^2 \cdot OP^2 \cdot OB^2}{OV^2 \cdot HB^2 \mp OP^2 \cdot OH^2}$ and $\frac{OL^2}{OB^2} \cdot \mp OB^2$

$\pm OR^2 = QG^2$, whence, by Emerson's Conics, B. I. and II. p. 37. and 33. $\frac{OV^2 \cdot OP^2}{OR^2 \cdot OB^2} \cdot \mp OB^2 \pm OR^2 = GK^2$, and $\frac{\mp OB^2 \pm OR^2}{OB^2} =$

QR^2 , Ibid. B. I. and II. p. 16. and 15.; therefore the area squared $= \frac{OV^2 \cdot OP^2}{OR^2 \cdot OB^2} \cdot \mp OB^2 \pm OR^2 = \frac{\mp OV^2 \cdot HB^2 + OP^2 \cdot OH^2 \pm OV^2 \cdot OP^2}{OV^2 \cdot HB^2 \mp OP^2 \cdot OH^2}$

putting for OR^2 its value found above: area sq. $= \frac{OP^2}{OA^4} \cdot \mp OA^2 \pm OV^2$

hence $OV^2 \cdot HB^2 \mp OP^2 \cdot OH^2 = \mp OA^2 \cdot OP^2$, or $OV^2 : OP^2 :: \mp OA^2 : \pm OH^2 : HB^2$, and the locus in this case likewise a conic section similar and concentric with the given one. which being described at the distance determined from the equation $AV^3 \cdot L^3 = \frac{1}{2} \text{ area squared}$ in the first case, or area squared = its value above given in the second, will cut the line given in position in the points required.

N. B. Mr. Barnes wishes to engage as an assistant to teach mathematics or classics, and will answer any letters directed to him as above.

The same answered by Mr. J. LOWTHIAN, the Proposer.

The *locus* of the intersection of two tangents drawn to a given conic section to contain a given area by a line drawn through their points of contact, will be a conic section similar and concentric to the given one.

This premised, put t = the semi-transverse, and c = the semi-conjugate axis of the given section, x = the distance of the semi-ordinate from the centre; then the said semi-ordinate = $\frac{c}{t} \sqrt{t^2 \pm x^2}$,

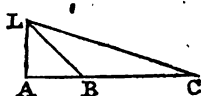
and the subtangent = $\pm x \frac{t^2}{x}$, and the rectangle of these two being given = the area of the given triangle, we have an equation from which the value of x may be found, and the point determined through which, describing a conic section similar and concentric to the given one, it will cut the line given in position in the points required.

Answers were also received from Messrs. W. Watkins and T. White.

The truth of the property, or *locus*, mentioned in the preceding answers, may be very easily and elegantly made out from Hamilton's Conics, Lib. IV. pr. 12.; for, since by prop. 11. the parallelogram $KLNO$ (fig. 13, 14. there) is constant, and $EFGH$ constant, the triangles KFI , LGN , must also be constant in magnitude, and since the ratio of $CB : CG$ is constant, as also that of $CM : CF$, the *loci* of the points G and F must be conic sections, similar and concentric to the given one. Whence, &c.

21. QUEST. 644, answered by Mr. THO. WAILES, of Shilbottle.

Put $AB = a$, $AC = b$, and $AL = x$, then $BL = \sqrt{a^2 + x^2}$ and $CL = \sqrt{b^2 + x^2}$. By trigonometry, the difference of the versed sines of two arches = that of their cosines and $\cos. ALB - \cos. ALC$ is therefore a maxi-



mum = $\frac{x}{\sqrt{a^2 + x^2}} - \frac{x}{\sqrt{b^2 + x^2}}$, its fluxion made = 0, and reduced

gives $x = \sqrt{\frac{a^4 b^2 - a^2 b^4}{b^4 - a^4}} = \frac{a^2 b^2}{\sqrt{b^2 + a^2}} = (\text{when } a = 1 \text{ and } b = 8) \sqrt{3.2} = 1.788543, \text{ \&c.}$

The same, by Mr. A. BUCHANAN, of Sedgfield.

Put $AB = a$, $AC = c$, x and y = the s. and cos. ABL ; then $y : a :: x :$

$\frac{ax}{y} = AL$, and $\sqrt{c^2 + \frac{x^2}{y^2}} = CL$; but $CL : x :: AL : s$, $ACL = \cos. ALC$ and $1 - \cos. ALC = \text{versed s. of } ALC$, and $1 - x = \text{versed s. of } ALB$, their diff. $x - \frac{ax}{\sqrt{c^2 - c^2 - a^2} \cdot x^2}$ is a max. per quest. in fluxi-

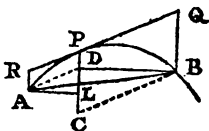
ons, and reduced gives $2x^2 = 2c^2 \cdot \frac{1 - a^{\frac{2}{3}} c^{-\frac{2}{3}}}{c^2 - a^2} = 1.5238095$ the versed sine of twice ABL is $121^\circ 35' 17''$ and $ABL = 60^\circ 47' 38'' \frac{1}{2}$.

Messrs. *Barnes, Cock, Garnett, Riley, Sidebottom, and White*, also gave true and ingenious answers.

12. QUEST. 645, answered by Mr. J. A. CUNLIFFE.

Describe the figure as *per quest.* and through P draw the axis PC cutting AB in L, draw BC and AD parallel to QR; then by the common property of the parab. $PD = RA : PC = QB :: AD^2 = RP^2 : CB^2 = PQ^2$; and by Hamilton's Conics, III. 4. $PD = RA : PL :: PL : PC = QB$; therefore

$RA : QB :: PL^2 : QB^2 :: RP^2 : PQ^2$, conseq. $PL : QB :: RP : PQ$, and from above $RA : PL :: PL : QB$, whence the trapeziums RALP and PLBQ are similar. *q. e. d.*

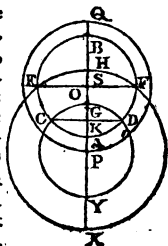


The same, by Mr. JOHN HAMPSHIRE, of London.

Let APB be a conic parabola, to which let the lines be drawn as *per question*, and let the diam. drawn from the point of contact P meet AB in L; from A draw AD parallel to the tangent RQ cutting PL in D, and draw the diagonals RL and PB. Then, by the nature of the parabola, and Euclid, 29. 1. the angle BQR = RPL, $QBL = PLA$, $BLB = LAR$, and $LPQ = ARP$; let p be the parameter of the diameter to which AB is ordinately applied. Then, by Hamilton's Conics, cor. 1. 3. 3. $AL^2 = p \times PD$, and by the 3. 2. of the same book, $AL \cdot LB = p \cdot LP$, whence, by analogy, we have $AL^2 : AL \cdot LB :: p \cdot PD : p \cdot LP$, or, Eucl. 15. 6. $AL : LB :: PD = AR : LP :: RP : PQ$ by parallel lines; then, because the angles RAL, PLB, have been proved equal, and the sides about them proportional, the triangles RAL and PLB are similar, and the remaining angles equal $ARL = LPB$ and $ALR = LBP$; but because the angle $ALP = LBQ$ and $ARP = LPQ$ the angle $LRP = BPQ$ and $RLP = PBQ$, and therefore the triangle RPL and PBQ are similar, and $RP : PL :: PQ : QB$, and by drawing the diagonals AP and LQ, the triangles ALP and LBQ will be proved similar in the same manner, and therefore $PL : LA :: QB : BD$, and consequently the trapeziums ARPL and LPQB are similar. Elegant answers were also given by Messrs. *Barnes, Howard, Riley, and White*.

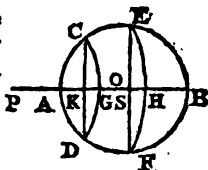
13. QUEST. 646, answered by EUMENES.

Complete the circles EHF, CGD, and draw one through P concentric to the given one ACBD. Then, because $CK^2 = AK \cdot BK = GK \cdot KY$, and $ES^2 = HS \cdot SX = BS \cdot AS$, $GK : AK :: BK : KY$, $HS : BS :: AS : SX$, consequently $GK : AK :: BG = BK - GK : AY = KY - AK$, $HS : BS :: AH = HS + AS : BX$; by comp. $GK : AG :: BG : BG + AY = BG + PG + AP = PQ$, and $HS : BH :: AH : BX - AH = BX - PX + AP = PQ$; but $AG = BH$, and $BG = AH$; therefore $GK = HS$. *q. e. d.* And in a manner equally strict and geometrical is the demonstration given by Mr. *Moss*, the inventor of this curious proposition.



The same, by Mr. Jos. GARNETT.

By the well known property of the circle $OA^2 - OS^2 = ES^2 - PH^2 - PS^2$ and $OA^2 - OK^2 = CK^2 - PG^2 - PK^2$; but $PG = PO - OG$ and $PK = PO - OK$, and the square of the difference of two lines is equal to the sum of their squares *minus* twice their rectangle; $\therefore OA^2 - OK^2 = PG^2 - PK^2 = PO^2 + OG^2 - 2PO \cdot OG - PO^2 - OK^2 + 2PO \cdot OK$, or $OA^2 - OG^2 = 2PO \cdot OK - OG = 2PO \cdot GK$.



Again, $PH = PO + OH$ (OG) and $PS = PO + OS$, and the square of the sum of two lines is equal to the sum of their squares *plus* twice their rectangle; therefore $OA^2 - OS^2 = PH^2 - PS^2 = PO^2 + OG^2 + 2PO \cdot OG - PO^2 - OS^2 - 2PO \cdot OS$, whence $OA^2 - OG^2 = 2PO \cdot OG - OS = 2PO \cdot OH - OS = 2PO \cdot SH$; but it has been shewn above to be equal to $2PO \cdot GK$, and consequently GK is equal to SH . Q. E. D.

Cor. 1. $2PO \cdot KG = OA^2 - OG^2$ universally.

Cor. 2. OA and PG being constant quantities, KG is evidently a maximum when G coincides with O , or when the arc CGD passes through the centre O .

Another *Demonstr.* by Mr. J. Gough, of Kendal.

$CK^2 = 2PG \cdot GK - GK^2$, $OK^2 = OG^2 + 2OG \cdot GK + GK^2$, $OA^2 = OK^2 + KC^2 = OG^2 + 2OG \cdot GK + 2PG \cdot GK = OG^2 + 2PO \cdot GK$; $ES^2 = 2PH \cdot HS - HS^2 = 2PO \cdot HS + 2OG \cdot HS - HS^2$, $OS^2 = OG^2 - 2OG \cdot HS + HS^2$, $BO^2 = OA^2 = ES^2 + OS^2 = OG^2 + 2PO \cdot HS$; but $OA^2 = OG^2 + 2PO \cdot GK$; therefore $2PO \cdot GK = 2PO \cdot HS$, and $GK = HS$. Q. E. D.

The *Resolution*, by Mr. T. WILKINSON, of Castle Sowerby.

Suppose the versed lines KG , SH , to be equal; complete the circles CGD , EHF , cutting the diameter BA produced in Y and X (fig. 1.); then, as $GK = HS$, $KS = GH$, $OG = OH$ and $OK = SO = 2SH$, draw OC , OE ; then, $SE^2 - KC^2 = OK^2 - SO^2 = 2KS \cdot SH$, but $KC^2 = KY \cdot KG$, and $ES^2 = SX \cdot SH$; therefore $KY \cdot KG = SX \cdot SH + 2KS \cdot SH$, but $KG = SH$, and $KS = GH$; hence, by division, $KY = SX - 2KS$, therefore $XY = KS = GH$, and consequently the circles $CGDY$, $EHFX$, are concentric: *ergo solutum*.

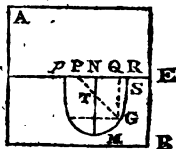
Answers equally satisfactory have also been received from Messrs. *Barnes, Cunliffe, Hampshires, Howard, Lowthian, Ryley, Wailes, and White*. Besides several mistaken ones.

14. QUEST. 647, answered by Mr. J. RYLEY, of Leeds.

Analysis. The ratio of $EH : HG$ being given, produce CD till it meets AB in I , and because ED bisects the angle CEI , CD will be equal to DI , and because CD is perpendicular to NG , ND is equal to LG , and CN , GC , NI , IG , being drawn, $CGIN$ must be a rhombus, and

Ingenious geometrical answers are also given by Messrs. *Barnes*, *Coxing*, *Garnett*, *Gough*, *Howard*, *Lowthian*, *Parnel*, *White*, and *Wilkinson*; and an algebraical one by Mr. *Watkins*.

Let the vertical plane AB represent the section of the vessel in which the pendulum vibrates; from P the point of suspension draw PG to represent a position of the pendulum, F make GQ perp. to the horizontal line FPE, and when G is in PE at the commencement of the motion, make pN a fourth proportional to $b + w$, b and PG, b and w being the weights of the pendulum and vessel, and $NR = pN$; draw $NM = PG$ perp. to NR , and on PE take $PS = PG$; and the forces acting on G parallel to FE to produce its rotatory motion, are equal and contrary to those acting on P in the same line EF, because action and re-action are equal; therefore, since the motive forces of G and the system GP are equal, it will be, *per* mechanics $b + w : b :: SQ : pP$; therefore, when (G is at M) $SQ = PS$, $pP = pN$, and when $SQ = 2PS$, $pP = pR$ by construction, hence $SQ : PG :: pP : pN$, and by division $PQ : PG : PN : pN$, and by similar triangles $PQ : PG :: PN : PT$, therefore $PT = pN$; wherefore N is the centre, $2NR$ the conjugate, and MN the semitransverse axis of an ellipsis, which is the *locus* of G.



The same answered, by Mr. J. DALTON, of Kendal.

The force of the pendulum upon the centre P at any instant may be resolved into two others, the one perp. the other parallel to the horizon; the first of which only tending to increase the friction of the vessel upon the plane, by hypothesis, has no effect, and the other communicates the horizontal velocity to the vessel. Moreover, as the action between the vessel and pendulum is reciprocal, their common centre of gravity cannot be made to deviate from the vertical line NM, consequently the distance of their respective centres P and G from that line will be always the same, the pendulum will coincide with NM after half one vibration, and the whole space described by the vessel during one vibration will be $=2pN$. Now, let $pR=PG=NM=s$.

and then $NR = a \times \frac{W}{W + w} = TG = b$, $QG = x$, and $NQ = y$, then $PG = a : PQ = \sqrt{a^2 - x^2} :: TG = b : NQ = y$, the property of the ellipse, which is the locus required. An ingenious answer was also sent by Mr. T. White.

But our ingenious young philomaths are not to conclude that G will descend with the same velocity, and in the same time, as it would do if P the point of suspension were at rest, as they may assure themselves that it will not.

The PRIZE QUESTION answered, by EUMENES.

Let the radius of the globe = r , the axis or versed sine of the segment = c , any other variable versed sine = t , the corresponding semi-chord or ordinate = u , the distance of the centre of gravity of the segment, from the centre of the globe = f , and M = the mass or solid content of the segment. Then $M = 3.14159 \text{ flu. } u^2 \dot{t} = \pi r^2 \dot{t} - \frac{1}{3} \pi t^3 =$ (when $t=c$) $\pi r^2 c - \frac{1}{3} \pi c^3$, the distance of the centre of gravity from

the curve = $\frac{\text{flu. } u u \dot{t}}{\text{flu. } u u \dot{t}} = \frac{2rt - \frac{2}{3}t^2}{3r - t} = \frac{2rc - \frac{2}{3}c^2}{3r - c} = r - f$, hence $f = \frac{3r^2 - 3rc + \frac{2}{3}c^2}{3r - c}$, and the *momentum of inertia* round an horizontal axis

passing through the centre of gravity perpendicular to the vertical plane in which the centres of gravity and of the globe are always found, and which axis is also by the laws of motion a permanent axis of rotation,

$$= M \left(\frac{\text{flu. } u^2 \dot{t} (4r^2 + u^2)}{4 \text{ flu. } u^2 \dot{t}} \right) - M (r - f)^2 = M \times \frac{1}{r - \frac{1}{3}c} \times \left(\frac{r^3 c}{3} - \frac{11r^2 c^2}{36} + \frac{rc^3}{10} - \frac{c^4}{80} \right).$$

Let this now = Ma^2 , the distance of the centre of gravity from the horizontal line passing through the centre of the globe = y , d = the first value of y , $2g = 32\frac{1}{6}$ the force of gravity, v = the vertical or downward velocity of the centre of gravity, and W = the weight of the segment. Then, by the nature and laws of

motion $4g(d \mp y) = v^2 + \frac{a^2 v^2}{f^2 - y^2}$, and $v = \frac{2 \sqrt{gd \mp gy} \sqrt{f^2 - y^2}}{\sqrt{a^2 + f^2 - y^2}}$, and

$\frac{2y \sqrt{gd \mp gy}}{\sqrt{a^2 + f^2 - y^2}}$ = the horizontal velocity of the centre of the globe; the

horizontal dist. that centre has gone over while the upper sign takes place or while the centre of gravity is above it, = $\sqrt{f^2 - y^2} - \sqrt{f^2 - a^2}$, and the distance that it has returned = $f - \sqrt{f^2 - y^2}$ when the centre of gravity is at y distance below its level. Moreover, the weight with

which the body presses upon the plane = $W \pm W \times \frac{v^2}{2gy} = W a^2 \times \frac{a^2 + f^2 + y^2 \mp 2dy}{a^2 + f^2 - y^2}$, this when $d=y$ becomes $\frac{W a^2}{a^2 + f^2 - a^2}$ at the com-

mentement of the motion, and when $y=0$, is $\frac{W a^2}{a^2 + f^2}$, and $W \times \frac{a^2 + 2f^2 + 2df}{a^2}$ when $y=f$. Also, when $y=d$, $v=0$, and when $y=0$,

the horizontal velocity $= 0$, and $v = \frac{2f\sqrt{gd}}{\sqrt{a^2 + f^2}}$; and when $y = f$, $v = 0$,

and the horizontal velocity $= \frac{2f\sqrt{gd + gf}}{a}$, which is its maximum value.

Moreover, since when v is a maximum $vv = 0$, it appears from the expression for the pressure, that it then becomes equal to W the weight of the body; therefore putting that expression $= W$ we obtain $f^4 + a^2f^2 - 3a^2y^2 - 2f^2y^2 - 2da^2y + y^4 = 0$, which equation gives the value of y when v is a maximum. Likewise, the fluxion of the time

$$= \frac{\dot{y}}{v} = \frac{\dot{y} \sqrt{a^2 + f^2 - y^2}}{2 \sqrt{gd + gy} \sqrt{f^2 - y^2}}, \text{ and the fluent or time} = \frac{\sqrt{a^2 + f^2}}{f}$$

\times time that an heavy body would fall freely from rest along the arch of an ellipsis whose semiconjugate axis $= \frac{af}{\sqrt{a^2 + f^2}}$, semitransverse $= f$,

and abscissa above, but adjoining, the centre $= d$ at the beginning of the motion.

The Author is much obliged to Mr. *Ja. Cunliffe*, Mr. *J. Dalton*, Mr. *J. Gough*, Mr. *J. Howard*, and Mr. *T. White*, for favouring him with the result of their labours upon this difficult problem.

New Mathematical QUESTIONS, to be answered in next Year's DIARY.

(1.) QUEST. 650, by Mr. T. MOSS, of London.

To find a point in a given curve, from which if two right lines be drawn to two others given in position, they shall meet them in given angles, and obtain a given ratio?

(2.) QUEST. 651, by Mr. GEO. BARNES, of Wigton.

Given the base, the vertical angle, and the sum of the other two sides of a spherical triangle to construct it?

(3.) QUEST. 652, by Mr. N. HOSKINS, near Liscard, Cornwall.

If a die be 6 times thrown, or 2 dice thrice thrown, the numbers from 6 to 36 both inclusive, can come up 46656 different ways; required to ascertain the component parts of this sum, viz. how many different ways to be 6, how many to be 7, 8, 9, &c. to 36?

(4.) QUEST. 653, by Mr. J. LOWTHIAN, of Sebergham.

To determine geometrically the centre of a circle which shall pass through a given point, and have a given part or portion of its circumference intercepted by a right line and one of any order, both of them being given in position?

(5.)

(5.) QUEST. 654, by Mr. W. WATKINS, of Wylam-Engine.

Given the hypotenuse of a right-angled triangle to construct it, when the difference, between the greater leg, and the perpendicular let fall from the right angle to the hypotenuse, is a *maximum*?

(6.) QUEST. 655, by Mr. J. HORNBY, of Westerdale.

In what north latitude was the sun setting at half past six, when the difference, between the said latitude and co-declination, was a *maximum*?

(7.) QUEST. 656, by STUDIO.

A party at Whist desire to know the chances of cutting either 1 honour, or 2, 3, or 4 honours; in one round, or 4 successive deals?

(8.) QUEST. 657, by Mr. J. HOLT, of Manchester.

The vertical angle, the line bisecting it and terminating in the base, and the difference between the sum of the sides, and base being given; to construct the triangle?

(9.) QUEST. 658, by Mr. T. MOSS.

If in any triangle ABD, a line BC be drawn from one of its angles, cutting the opposite side AD in any point C whatever, and suppose in DC and AB any two points *a* and *b* so taken, that *Da* and *Ab* may be in the given ratio of DC to AB, and draw the right line *ab* cutting the first drawn line BC in *c*; I say, that *ac* will be to *bc* in the given ratio of DC to AC. The demonstration is required?

(10.) QUEST. 659, by Mr. J. YOULE, of Sheffield.

There is a vessel, in the form of the frustum of a parabolic conoid, full of water, standing on its lesser end whose diameter is 24 inches, that of the greater end 64, and the altitude 60 inches: now a globe of lead being put into the said vessel, three-fourths of its solidity was immersed; required the globe's diameter, and the quantity of water that flowed over?

(11.) QUEST. 660, by Mr. N. PARNELL, Land-surveyor, Nuneaton.

In a right-angled plane triangle are given the sum of the perimeter and perpendicular let fall from the right angle to the hypotenuse, and likewise the difference between the said perpendicular and the diameter of the inscribed circle; to construct the triangle?

(12.)

(12.) QUEST. 661, by Mr. T. WILKINSON, of Castle-Sowerby.

Given the rectangle of the sides, and difference between each side, and its adjacent segment of the base made by the perpendicular, let fall from the vertical angle upon the base; to construct the triangle?

(13.) QUEST. 662, by Mr. T. Moss.

If the opposite sides AB and DC of any quadrilateral figure ABCD whatever be divided, from A and D, in the ratio of any two given right lines m to n , and the other two opposite sides AD and BC be divided, from A and B in the same given ratio of m to n : I say, that each of the two right lines joining those opposite points of division will be divided by their intersection, in the same ratio of $m : n$; required the demonstration?

(14.) QUEST. 663, by Mr. JOHN DALTON, of Kendal.

Two indefinite right lines forming a right angle at C, from a given point A in one of them draw lines to meet the other in D, on which let off AM to CD in a given ratio of $1 : n$; required the quadrature of the curve which is the *locus* of the point M?

(15.) QUEST. 664; by Mr. JOHN GOUGH, of Kendal.

If a curve surface, formed by the revolution of a curve round its axis, support a fluid of a given height; *querre*, the pressure parallel to the axis, the axis being perpendicular to the horizon?

(16.) QUEST. 665, by Mr. T. WHITE, of Dumfries.

From a given point P without a given circle, to draw a right line PAC cutting the circle in A and C, so that taking therein PB in a given ratio to BC, from B drawing BD to meet the circle in D, parallel to a right line EF given in position without the circle, and through D and C drawing a right line DQ meeting EF in Q; the two parts thereof DC and CQ may obtain a given ratio: and to shew the limits of possibility?

PRIZE QUESTION, by EUMENES.

If a pendulum and vessel, as in *Quest.* 648, be put in motion by the force of uniform gravity; to determine their velocities, and the time of vibration?

A Numerical Paradox, by Mr. M. Williams, of Welwyn.

Five threes may be placed in six different positions, so as to produce six terms in geometrical progression. How must this be done?

FINIS.

The LADIES' Diary:
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WOMAN'S ALMANACK,
For the Year of our LORD 1792;
Being BISSEXTILE, or LEAP-YEAR.
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[Price stitched, TEN-PENCE.]

<i>T. of Chris.</i>	<i>T. succ.</i>	<i>T. of Chris.</i>	<i>T. succ.</i>
1600 King Charles I. born	1621	1714 Q. Ann died, K. Geo. I. succ.	1718
1603 Q. Eliz. died, K. Ja. succ.	1609	1715 Rebellion in the north	1717
1603 A great Plague in London	1609	1716 A very great frost	1716
1605 Popish Gun-powder Plot	1607	1726 Sir Isaac Newton died	1727
1616 Shakspeare the poet died	1616	1727 K. Geo. I. died, Geo. II. succ.	1727
1625 K. James died, Cha. I. succ.	1625	1739 War against Spain declared	1739
1641 Bloody Irish massacre	1641	1739 A very great frost	1739
1642 Sir I. Newton born, Dec. 25	1642	1743 A great comet appeared	1743
1649 K. Charles I. beheaded	1649	1744 War against France declared	1744
1658 Oliver Cromwell died	1658	1745 Rebellion in Scotland	1745
1660 K. Charles II. restored	1660	1748 A general peace	1748
1662 Royal Society instituted	1662	1750 Westminster bridge finished	1750
1665 Died of the plague 68,586	1665	1752 Date and Calendar altered	1752
1666 Great fire in London	1666	1756 War against France declared	1756
1666 War against Denmark decl.	1666	1760 K. Geo. II. died, G. III. succ.	1760
1667 Peace with Hol. Fr. & Den.	1667	1762 American philos. soc. inst.	1762
1672 War against Holland decl.	1672	1762 War against Spain declared	1762
1672 Halfpence & Farth. coined	1672	1763 Peace with France & Spain	1763
1674 Peace with Holland procl.	1674	1765 Otaheite discovered	1765
1679 Habeas Corpus act passed	1679	1770 Blackfriars bridge finished	1770
1685 K. Cha. II. died, Ja. II. succ.	1685	1772 A revolution in Denmark	1772
1688 Prince of Orange landed	1688	1772 A revolution in Sweden	1772
1688 K. James II. abdicated	1688	1775 War against America begun	1775
1689 Wm. and Mary crowned	1689	1776 America declared independent	1776
1693 Hackney coaches established	1693	1778 French treaty with America	1778
1702 K. Wm. died, Q. Ann succ.	1702	1778 War against France begun	1778
1702 War against France declared	1702	1779 War against Spain begun	1779
1707 England & Scotland united	1707	1780 War against Holland begun	1780
1713 Peace with France procl.	1713	1783 A general peace	1783

BIRTH-DAYS, [N.S.] and YEARS, of the ROYAL FAMILY of GREAT BRITAIN.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1723
Prince of Wales, August 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Prince Frederick, August 16, 1763	Princess Mary, April 25, 1796
Prince William Henry, Aug. 21, 1765	Princess Sophia, Nov. 3, 1797
Prs. Charl. Aug. Mat. Sept. 29, 1766	Princess Amelia, Aug. 7, 1783
Prince Edward, Nov. 2, 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 8, 1768	Prs. Augusta of Brunsw. Aug. 12, 1757
Prs. Elizabeth, May 22, 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

YEARS of BIRTHS of the Principal SOVEREIGN PRINCES of EUROPE.

Pius VI. Pope - - - 1717	Leopold, Emp. Germ. - - 1747
Victor Amade Maria K. Sardinia 1726	William V. Stadtholder, - 1748
Catherine, Empress of Russia, 1729	Charles, IV. King of Spain, 1748
Stanislaus Aug. King of Poland 1732	Christian VII. K. of Denmark, 1749
Maria, Queen of Portugal - 1734	Ferdinand IV. King of Sicily, 1752
Fred. William, King of Prussia, 1744	Lewis XVI. King of France 1754
Gustavus, King of Sweden, 1746	Selim III. Grand Signor - 1761

Full Moon, 9th, 4m. past 9 morn.
 Last Quarter, 17th, 28m. past 2 morn.
 New Moon, 23d, 27m. past 5 after.
 First Quarter, 30th, 1m. past 11 night.

Sun enters =
 19d. 18h. 11m.

1	A	S. aft. Christ. Circumc.	8	5	3	55	23	3	1	morn	7
2	M			4		56	22	56	1	4	8
3	Tu			4		56		50	2	7	9
4	W			3		57		44	3	9	10
5	Th	Old Christmas Day		2		58		38	4	7	11
6	F	Epiphany: Twelfth-day		1		59		31	5	4	12
7	S			0	4	0		23	5	55	13
8	A	1 Sun. after Epip. Lucian		0		0		15	6	42	14
9	M	Plow Monday	7	59		1		7	D	rises	F
10	Tu			58		2	21	58	5	a	46
11	W			57		3		49	6	49	17
12	Th	Old New-Year's Day		56		4		39	7	52	18
13	F	Cam. Term beg. Hilary		54		6		29	8	59	19
14	S	Orf. Term begins		53		7		19	10	6	20
15	A	2 Sunday after Epiphany		52		8		8	11	16	21
16	M			51		9	20	57	morn		22
17	Tu	Old Twelfth Day		50		10		45	0	29	23
18	W	Q. Char. b. d. k. Prisca		48		12		33	1	42	24
19	Th			47		13		20	2	54	25
20	F	Fabian. Hil. Ter. 1 return		46		14		8	4	5	26
21	S	Agnes		44		16	19	54	5	10	27
22	A	3 Sun. aft. Epip. Vincent		43		17		41	D	fets	28
23	M	Hilary Term begins		41		19		27	4	a	32
24	Tu			40		20		13	5	47	1
25	W	Conversion of St. Paul		38		22	18	58	7	3	2
26	Th			37		23		43	8	18	3
27	F	Pr. Aug. F. b. Hil. 2 return		35		25		28	9	29	4
28	S			34		26		12	10	38	5
29	A	4 Sun. after Epiphany		32		28	17	56	11	44	6
30	M	K. Charles I. mart. 1649		31		29		40	morn		7
31	Tu			29		31		23	0	50	8

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars	Sc
1	7 50	0 6	6 0	6 0	4 41	4 1"	8 a	45
6	58	14	5 58	2	43	6 18		23
11	8 6	22	54	6	46	8 23		1
16	18	34	49	11	49	10 13	7	40
21	32	48	44	16	53	11 47		19
26	46	1 2	38	22	58	13 1	6	57

Full Moon, 8th, 56m. past 2 morn.
 Last Quarter, 15th, 51m. past 11 morn.
 New Moon, 22d, 4m. past 5 morn.
 First Quarter, 29th, 24m. past 7 night.

Sun enters ♈
 18d. 9h. om.

M	W	Sundays, Holydays, &c.	Sun rises	Sun sets	Sun's decl.	D. rises & sets	D
D	D						A ₂
1	W		7 27	4 33	17 6	1 m 5 r	
2	Th	Purif. or Candlemas-day	25	35	16 49	2 46	1
3	F	Blase. Hil. Term 3 return	24	36	31	3 41	1
4	S		22	38	13	4 30	1
5	A	Septuages. Sun. Agatha	20	40	15 55	5 14	1
6	M		19	41	37	5 44	1
7	Tu		17	43	18	6 27	1
8	W		15	45	14 59	D rises	1
9	Th	Hilary Term 4th return	13	47	40	6 a 43	1
10	F		11	49	21	7 52	1
11	S		9	51	1	9 1	1
12	A	Sexagesima Sunday	8	52	13 41	10 13	2
13	M	Hil. T. ends. Old Cand. d.	6	54	21 11	26	2
14	Tu	Valentine	4	56	1	morn	2
15	W		2	58	12 40	0 39	2
16	Th		0	5	20	1 48	2
17	F		6 58	2 11	59	2 54	2
18	S		56	4	38	3 54	2
19	A	Quinq. or Shrove Sun.	54	6	16	4 47	2
20	M	Cam. Term d. vides m.	52	8	10 55	5 30	2
21	Tu	Shrove Tuesday	51	9	33	6 7	2
22	W	Ash Wednesday	49	11	11	D sets	1
23	Th		47	13	9 50	7 a 5	
24	F	St. Matthi. Pr. Ad. Fred. b.	45	15	27	8 17	
25	S		43	17	5	9 26	
26	A	Quadr. or 1 Sun. in Lent	41	19	8 43	10 33	
27	M		39	21	20 11	38	
28	Tu		37	23	7 58	morn	
29	W	Ember Week	35	25	35	0 36	

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars S
1	9 6	1 22	5 32	6 28	5 3	14' 3"	6 a 3
6	22	38	24	36	9	32	1
11	42	58	16	44	14	40	5
16	10 0	2 16	7	53	20	29	3
21	18	34	4 58	7 2	26	1	1
26	18	54	49	11	32	13 17	4 5

Full Moon,	8th,	35 m. past	6 aftern.	
Last Quarter,	15th,	4m. past	7 aftern.	Sun enters ♍
New Moon,	22d,	50m. past	5 aftern.	19d. 9h. 22m.
First Quarter,	30th,	36m. past	3 aftern.	

1	Th	David	6	33	5	27	7	8	12	1	m	33	8
2	F	Chad		31		29	6		49	2		24	9
3	S			29		31			26	3		10	10
4	G	2 Sunday in Lent		27		33			3	3		52	11
5	M			25		35	5		40	4		29	12
6	Tu			23		37			17	5		0	13
7	W	Perpetua		21		39	4		53	5		30	14
8	Th			19		41			30	D rises			F
9	F			17		43			6	6 a	53		16
10	S			15		45	3		43	8		6	17
11	G	3 Sunday in Lent		13		47			19	9		19	18
12	M	Gregory Mart.		11		49	2		56	10		32	19
13	Tu			9		51			32	11		44	20
14	W			7		53			8	morn			21
15	Th			5		55	1		45	0		53	22
16	F			3		57			21	1		54	23
17	S	St. Patrick		1		59	0		57	2		44	24
18	G	4 S. in Le. Ea. K. of W.S.	5	59	6	1			34	3		34	25
19	M			57		3			10	4		12	26
20	Tu			55		5		n	14	4		45	27
21	W	Benedict. ☉ eclips. invis.		53		7			37	5		15	28
22	Th			51		9	1		1	D sets			N
23	F			49		11			25	7 a	14		1
24	S			47		13			48	8		22	2
25	G	5 S. in L. Annu. or L. Day		45		15	2		12	9		28	3
26	M			43		17			35	10		31	4
27	Tu			41		19			59	11		30	5
28	W			39		21	3		22	morn			6
29	Th			37		23			45	0		23	7
30	F	Eam. Term ends		36		24	4		9	1		11	8
31	S	Drf. Term ends		34		26			32	1		54	9

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.	
1	10	54	3 10	4 42	7 18	5 37	12' 31"	4 a 41
6	11	14	50	31	29	43	11 22	23
11		34	50	20	40	49	10 3	5
16		54	4 10	10	50	56	8 38	3 46
21	12	14	30	0	8 0	6 2	7 7	28
26		34	50	3 48	12	8	5 35	10

Full Moon, 7th, 22m. past 7 morn. Moon Full
 Last Quarter, 14th, 16m. past 1 morn. Sun morn
 New Moon, 21st, 36m. past 7 morn. 18d. 22m. w. 47.
 First Quarter, 29th, 2m. past 10 morn. Full Moon

1	G	6 Sun. in L. Palm Sunday	5	32	6	28	4	55	2	morn	10
2	M			30		30	5	18	3		11
3	Tu	Richard Ep. of Chichester		28		32	4	1	3	12	12
4	W	St. Ambrose		26		34	6	4	4	13	13
5	Th	Maundy Thur. Old Lady D.		24		36	26	4	3	14	14
6	F	Good Friday		22		38	49	4	5	15	15
7	S			20		40	7	11	8	16	16
8	G	Easter Day		18		42	34	8	2	17	17
9	M	Easter Monday		16		44	56	9	3	18	18
10	Tu	Easter Tuesday		14		46	8	18	10	19	19
11	W			12		48	40	11	5	20	20
12	Th			10		50	9	2	morn	21	21
13	F			8		52	24	0	5	22	22
14	S			6		54	45	1	4	23	23
15	G	1 S. aft. East. Low Sun.		5		55	10	6	2	24	24
16	M			3		57	28	2	5	25	25
17	Tu			1		59	49	3	6	26	26
18	W	Orf. and Cam. T. begins	4	59	7	1	11	9	3	27	27
19	Th	Alphege		57		3	30	4	19	28	28
20	F			55		5	51	4	47	29	29
21	S			53		7	12	11	D sets	N	
22	G	2 Sunday after Easter		51		9	31	8	2	25	1
23	M	St. George East. T. 1 re.		50		10	51	9	25	2	2
24	Tu			48		12	13	10	10	22	3
25	W	St. Mark. Prs. M. b. 1776		46		14	30	11	15	4	4
26	Th	[Easter Term b.		44		16	49	11	58	5	5
27	F			42		18	14	8	morn	6	6
28	S			40		20	27	0	37	7	7
29	G	3 Sunday after Easter		39		21	45	1	12	8	8
30	M	Easter Term 2 return		37		23	15	4	1	43	9

Days	L. of D.		Day Inc.		D. breaks		Tw. ends		Sun East		Cl. bef. S.		7	Start	So.
1	12	55	5	12	3	31	8	31	6	10	3	43		2	48
6	13	16		32		19		43		22	2	14		21	30
11		36		52		4		58		28	0	42			17
16		54	6	10	2	52	9	11		34	0	27		1	53
21	14	14		30		38		25		39	8	33			184
26		32		48		23		40		45	2	20		21	225

Full Moon, 6th, 16m. past 5 aftern.
 Last Quarter, 13th, 44m. past 7 morn.
 New Moon, 20th, 59m. past 9 night.
 First Quarter, 29th, 43m. past 1 morn.

Sun enters II
 19d. 22h. 37m.

1	St. Philip and James	4	35	7	25	15	22	2	m	12	10
2	W		34		26		39	2		38	11
3	Th	Invention of Crofs	32		28		57	3		5	12
4	F		30		30	16	14	3		32	13
5	S		28		52		31	4		0	14
6	G	4 S. af. East. 7. Ev. a. P. L.	27		33		48			Drises	F
7	M	Easter Term 3 return.	25		35	17	4	8	a	38	16
8	Tu		23		37		21	9		48	17
9	W		22		38		37	10		51	18
10	Th		20		40		52	11		43	19
11	F		19		41	18	7			morn	20
12	S	Old May Day	17		43		22	0		27	21
13	G	5 or Rogation Sunday	16		44		37	1		4	22
14	M	Easter Term 4 return	14		46		51	1		34	23
15	Tu		13		47	19	5	2		1	24
16	W		11		49		19	2		28	25
17	Th	Ascension or Holy Thurs.	10		50		33	2		55	26
18	F	Easter Term 5 return	8		52		46	3		20	27
19	S	Queen Char. born: Dunstan	7		53		58	3		48	28
20	G	Sunday aft. Ascension	6		54	20	11			D sets	N
21	M	Easter Term ends	4		56		23	8	a	16	1
22	Tu	Prs. Elizabeth b. 1770	3		57		34	9		9	2
23	W		2		58		46	9		57	3
24	Th	Orf. Term ends		0	8		57	10		38	4
25	F		3	59		1	21	7	11	14	5
26	S	Augustin 1st Abp. Canter.		58		2	18	11		47	6
27	G	Wh. Sun. Ve. Be. C. T. d.		57		3	28			morn	7
28	M	Whit Monday		56		4	37	0		14	8
29	Tu	Whit Tues. K. Ch. II. rest.		55		5	46	0		40	9
30	W	Ember Week		54		6	55	1		5	10
31	Th			53		7	22	3	1	22	11

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	Stars							
14	50	7	6	2	5	9	59	6	50	3	12	0	a	56
15	56		22	1	51	10	13		56		42			37
16	62		38		29		35	7	0		58			18
17	68		54		6		59		5		59	11	m	58
18	74	8	8	0	20	11	36		9		45			39
19	80	16	4	20	No real Night				12		18			10

Full Moon, 5th, 7m. bef. 1 morn.
 Lat. Quarter, 11th, 34m. past 3 aftern.
 New Moon, 19h, 43m. past 12 noon.
 First Quarter, 27th, 17m. past 2 aftern.

Sun enters 23
 zod. 7h. 19m.

1	F	Nicomede	3	52	8	8	22	11	1	57	12
2	S			51		9	19	2	26		13
3	G	Trinity Sunday		50		10	26	3	2		14
4	M	K. Geo. III. b. Tr. T. 1re.		49		11	33	3	43		15
5	Tu	Pr. Ernest Aug. b. 1774		49		11	40		D rises	F	
6	W	Ort. Term be. [Boniface]		48		12	46	9	a 32		17
7	Th	Corpus Christi		47		13	51	10	20		18
8	F	Trinity Term. begins		47		13	57	11	1		19
9	S			46		14	23	1	11	36	20
10	G	1 Sunday after Trinity		46		14		6	morn		21
11	M	St. Barnabas. Tr. T. 2re.		45		15	10	0	4		22
12	Tu			45		15	14	0	29		23
13	W			44		16	17	0	55		24
14	Th			44		16	20	1	21		25
15	F			44		16	22	1	48		26
16	S	[St. Alban]		43		17	24	2	18		27
17	G	2 Sunday after Trinity.					26	2	50		28
18	M	Trinity Term 3 return					27	3	25		29
19	Tu						28		D sets	N	
20	W	Transf. Edw. K. W. Saxons					28	8	a 33		1
21	Th	Longest Day					28	9	12		2
22	F						27	9	45		3
23	S	[Midf. D.]					2	10	14		4
24	G	S. a. Tr. Na. of St. J. Bapt.					25	10	40		5
25	M	Trinity Term 4 return		43		17	23	11	7		6
26	Tu			44		16	21	11	31		7
27	W	Trinity Term ends		44		16	19	11	57		8
28	Th			44		16	16		morn		9
29	F	St. Peter		45		15	12	0	21		10
30	S			45		15		9	0	52	11

Longest Day at Lond.
 is 16h. 34m. 4sec.

allowing 9m. 16 sec.
 for refraction.

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	16	16	8	32	7	10	2' 31"
6		24	40	No night, but constant day or twilight.	18	1	41
11		30	46		19	0	44
16		34	50		20	0	b 19
21		34	50		21	1	25
26		32	odec. 2		20	2	28

Full Moon, 4th, 23m. past 7 morn.
 Last Quarter, 11th, 46m. past 1 morn.
 New Moon, 19th, 41m. past 3 morn.
 First Quarter, 26th, 38m. past 11 night.

Sun enters Ω
 21d. 18h. 11m.

1	G	4 Sunday after Trinity	3	40	8	14	23	5	1	29	12
2	M	Visitation of V. rgin Mary		46		14		0	2	14	13
3	Tu	Cam. Comm. Dog D. be.		47		13	22	55	3	6	14
4	W	Transf. of St. Martin		48		12		50	Drises		F
5	Th	Old Midsummer day		48		12		44	8 a	50	16
6	F	Cam. Term ends		49		11		38	9	28	17
7	S	Thomas & Becket.		50		10		31	10	1	18
8	G	5 Sun. after Trin.		5		10		24	10	29	19
9	M	Orford Act		51		9		17	10	56	20
10	Tu			52		8		9	11	23	21
11	W			53		7		1	11	49	22
12	Th			54		6	21	53	morn		23
13	F			55		5		44	0	16	24
14	S	Orf. Term ends		56		4		34	0	48	25
15	G	6 Sunday after Trinity.		57		3		25	1	22	26
16	M	[Switbin		58		2		15	2		27
17	Tu		4	0		0		5	2	50	28
18	W			1	7	59	20	54	3	4	29
19	Th			2		58		43	D sets		N
20	F	Margaret		3		57		32	8 a	14	1
21	S			5		55		20	8	43	2
22	G	7 Sunday after Trinity.		6		54		8	9		3
23	M	[Magdalen		7		53	19	55	9	34	4
24	Tu			9		51		43	9	57	5
25	W	St. James		10		50		32	10	22	6
26	Th	St. Anne Mo. of the V. M.		11		49		16	10	5	7
27	F			13		47		3	11	24	8
28	S			14		46	18	49	morn		9
29	G	8 Sun. after Trin.		16		44		34	0	2	10
30	M			17		43		20	0	50	11
31	Tu			18		41		5	1	44	12

Days	L. of D.	Day dec.	D breaks	T w. ends	Sun East	Cl. bef. S.	Stars	So
-1	16	28	0	6	7	19	3' 23"	8 m 51
6		22		12		17	4 20	31
11		14	20	No real Night		15	5 4	10
16		4	32			12	38	7 50
21	15	50	44			9	58	30
26		38	56	0 46	11 11	5	6 4	10

Full Moon, 2d, 11m. past 2 aftern.
 Last Quarter, 9th, 55m. past 2 aftern.
 New Moon, 17th, 41m. past 6 aftern.
 First Quarter, 25th, 26m. past 7 morn.
 Full Moon, 31st, 29m. past 10 night.

Sun enters 22d. oh. 35m.

1	W	Lammas Day	4	20	7	40	17	49	2m	53	13
2	Th		22	38		34			Rises		F
3	F		24	36		18	7	2	57		15
4	S		25	35		2	8	28			16
5	G	9 Sun. after Trinity	27	33	16	46	8	57			17
6	M	Transfiguration	28	32		29	9	26			18
7	Tu	Prs. Ame. b. Na. of Jesus	30	30		12	9	53			19
8	W		32	28	15	55	10	20			20
9	Th		34	26		37	10	51			21
10	F	St. Laurence	35	25		20	11	24			22
11	S	Prs. Brunf. b. Dog D. e.	37	23		2		morn			23
12	G	10 S. a. Tri. Pr. Wales b.	39	21	14	44	0	2			24
13	M	[O. Lam. day	41	19		25	0	46			25
14	Tu		42	18		7	1	35			26
15	W	Assumption of V. M.	44	16	13	48	2	30			27
16	Th	Duke of York born 1763	46	14		29	3	28			28
17	F		48	12		10			D sets		N
18	S		50	10	12	50	7	2	16		1
19	G	11 Sunday after Trinity	51	9		30	7	41			2
20	M		53	7		10	8	6			3
21	Tu	Duke of Clarence b. 1765	55	5	11	50	8	31			4
22	W		57	3		30	9	0			5
23	Th		59	1		10	9	30			6
24	F	St. Bartholomew	5	1	6	59	10	49	10	5	7
25	S		2	58		28	10	49			8
26	G	12 Sunday after Trinity	4	56		7	11	41			9
27	M		6	54	9	46		morn			10
28	Tu	St. Augustine	8	52		25	0	41			11
29	W	St. J. Baptist beheaded	10	50		3	1	51			12
30	Th		12	48	8	42	3	5			13
31	F		14	46		20	4	24			F

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	15 20	1 14	1 24	10 33	6 59	5 51	6 m 40
6			30 44	13	54	23	87
11	14 46		2 2 48	9 56	49	4 42	8
16		2 6	20 38		44	3 47	5 49
21		10 24	35 23		38	2 39	11 20
26	13 52		50 0		33	1 19	12

No 89.

September hath xxx Days.

21

Last Quarter, 8th, 9m. past 7 morn.
New Moon, 16th, 18m. past 9 morn.
First Quarter, 23d, 48m. past 1 after.
Full Moon, 30th, 6m. past 9 morn.

Sun enters ☾
21d. 21h. 4m.

1	S	Giles Ab. and C.	15	16	6	44	7	58	Dries	15
2	M	13 Sunday after Trinity	18	42		36	7	a 30		16
3	Tu	[Lon. bu. 1666]	20	40		14	7	58		17
4	W		22	38	6	52	8	26		18
5	Th		23	37		29	8	57		19
6	F	Eunuchus	25	35		7	9	30		20
7	S	Nativity of the B. V. Mary	27	33	5	44	10	8		21
8	M	14 Sunday after Trinity	29	31		24	10	51		22
9	Tu		31	29	4	59	11	38		23
10	W		33	27		36	morn			24
11	Th		35	25		13	0	30		25
12	F		37	23	3	50	1	26		26
13	S		39	21		27	2	26		27
14	M		41	19		4	3	28		28
15	Tu	☉ eclipsed invisible	43	17	2	41	4	33		29
16	W	15 Sunday after Trinity	45	15		18	D sets		N	
17	Th	Lambert	47	13	1	55	6	a 44		1
18	F		49	11		31	7	12		2
19	S	Ember Week	51	9		8	7	42		3
20	M		53	7	0	45	8	16		4
21	Tu	St. Matthew	55	5		21	8	57		5
22	W	K. Geo. III. crown. 1761	57	3	os	2	9	44		6
23	Th	16 Sunday after Trin.	59	1		26	10	42		7
24	F		6	1	5	59	49	11	45	8
25	S	Holy-Cross	3	57	1	13	morn			9
26	M	St. Cyprian	4	56		36	0	57		10
27	Tu		6	54		59	2	11		11
28	W		8	52	2	23	3	28		12
29	Th	St. Mich. Prs. Ch. A.M. b.	10	50		46	4	43		13
30	F	17 Sun. af. Tri. St. Jerome	12	48	3	10	5	59		F

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	Stars So.
13	23	1 6	3 7	8 53	6 26	0' 29"	4 m 50
14	10	24	21	39	20	2 7	32
15	50	44	34	26	14	3 49	14
16	30	4	45	15	7	5 33	56
17	10	24	56	4	1	7 17	30
18	52	42	4 7	7 53	5 55	9 0	21

Last Quarter, 8th, 5m. past 2 morn.
 New Moon, 15th, 56m. past 10 night.
 First Quarter, 22d, 12m. past 8 night.
 Full Moon, 29th, 23m. past 10 night.

Sun enters m.
 22d. 5h. 1m.

1	M	<i>Remigius</i>	6	14	5	46	3 ^s 3 ^s	D rises	15
2	T			16		4	56	7 a 4	16
3	W			18		42	4 20	7 3	17
4	Th			20		4	43	8 13	18
5	F			22		3	5 6	8 53	19
6	S	<i>Faith</i>		24		36	29	9 38	20
7	G	18 Sunday after Trinity		26		34	52	10 29	21
8	M			28		32	6 15	11 23	22
9	Tu	<i>St. Denys</i>		30		30	3 ^s	morn	23
10	W	<i>Ort. and Cn. T. b. O. Mic.</i>		32		28	7 0	0 22	24
11	Th	[day]		34		26	23	1 23	25
12	F			36		24	46	2 27	26
13	S	<i>Trans. of K. Edw. Conf.</i>		38		22	8 8	3 33	27
14	G	19 Sunday after Trinity		40		20	30	4 42	28
15	M			42		18	53	D sets	N
16	T			44		16	9 15	5 a 50	1
17	W	<i>Etbelred</i>		45		15	37	6 24	2
18	Th	<i>St. Luke</i>		47		13	58	7 3	3
19	F			49		11	10 2	7 49	4
20	S			51		9	42	8 43	5
21	G	20 Sun. after Trinity		53		7	11 3	9 45	6
22	M			55		5	24	10 52	7
23	Tu			57		3	45	morn	8
24	W			59		1	12 6	0 5	9
25	Th	<i>K. Geo. III. Acces. Crisp</i>	7	1	4	59	27	1 19	10
26	F	<i>K. Geo. III. Procl. 1760</i>		3		57	47	2 34	11
27	S			4		56	13 7	3 48	12
28	G	21 S. af. Tri. St. Sim. & Ju.		6		54	27	5 2	13
29	M			8		52	47	D rises	F
30	Tu			10		50	14 7	5 a 38	15
31	W			12		48	26	6 11	16

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars Su.
1	11	32	5 2	4 19	7 41	5 42	10' 37" 3 m 3
6		12	22	30	30	43	12 7 2 45
11	10	52	42	40	20	36	13 25 26
16		32	6 2	50	10	30	14 31 7
21		14	20	59	1	24	15 23 .1 49
26	9	54	40	5 8	6 52	18	58 28

Last Quarter, 6th, 35m. past 10 night.
 New Moon, 14th, 16m. past 11 morn.
 First Quarter, 21st, 52m. past 3 morn.
 Full Moon, 28th, 15m. past 2 aftern.

Sun enters ♏
 21d. 1h. 13m.

1	Th	All Saints	7	14	4	46	14	43	6	a	52	17
2	F	Prince Edward b. <i>All Souls</i>		15		45	15	4	7		34	18
3	S	Prs. Soph. b. Mic. T. 1 ret.		17		43		23	8		22	19
4	G	22 Sunday after Trinity		19		41		42	9		15	20
5	M	Powder Plot, 1605		21		39	16	0	10		11	21
6	Tu	Leonard. Mich. Term b.		22		38		18	11		10	22
7	W			24		36		35		morn		23
8	Th	Prs. Aug. Sophia b. 1768		26		34		53	0		12	24
9	F	Ld. Mayor's Day at Lond		27		33	17	10	1		17	25
10	S			29		31		26	2		24	26
11	G	23 S. af. Tri. <i>St. Martin</i>		31		29		43	3		33	27
12	M	Mic. T. 2 re. Ca. T. div. m.		32		28		59	4		43	28
13	Tu	<i>Britius</i>		34		26	18	15	5		56	29
14	W			36		24		30		9 fets		N
15	Th	<i>Macbutus</i>		37		23		45	5	a	3	1
16	F			39		21	19	0	6		33	2
17	S	<i>Hugh Bp. of Lincoln</i>		40		20		15	7		34	3
18	G	24 Sunday after Trinity		42		18		29	8		41	4
19	M	Mich. Term 3 return		43		17		43	9		53	5
20	Tu	<i>Edmund K. & Mart.</i>		44		16		56	11		7	6
21	W			46		14	20	9		morn		7
22	Th	<i>Cæcilia. Old Mart. day</i>		47		13		22	0		22	8
23	F	<i>St. Clement</i>		48		12		34	1		35	9
24	S			50		10		46	2		46	10
25	G	25 S. aft. Trin. <i>D. Glou. b.</i>		51		9		58	3		55	11
26	M	Mi. Term 4 re. [<i>Catharin</i>]		52		8	21	9	5		3	12
27	Tu			53		7		20	6		9	13
28	W	Mich. Term ends		54		6		30		D rises		F
29	Th			56		4		40	5	a	23	15
30	F	<i>St. Andrew</i>		57		3		50	6		9	16

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. art. S.	7 Stars So		
1	9	32	7	2	5	12	16' 15"	I. m 7	
6		16		18		6	7	0 47	
11		58		36		1	15 38	27	
16	8	42		52	36	24	4 56	14 48	6
21		28	8	6	43	17	52	13 37	II. a 41
26		16		18	49	11	48	12 6	20

Lail Quarter, 6th, 50m. past 6 night.
 New Moon, 13th, 26m. past 10 night.
 First Quarter, 20th, 46m. past 1 aftern.
 Full Moon, 28th, 16m. past 8 morn.

Sun enters 20d. 13h. 35m.

S		7	58	4	2	15	59	6	59	17
G	Advent Sunday		59		1	22	8	7	54	18
M		8	0	0			16	8	52	19
Tu			0	0			24	9	52	20
W			1	3	59		31	10	53	21
Th	Nicholas		2	58			38	11	58	22
F			3	57			45	morn		23
S	Conception of V. Mary		4	56			51	1	5	24
G	2 Sun. in Advent.		4	56			56	2	12	25
M			5	55	23		2	3	22	26
Tu			5	55			6	4	35	27
W			6	54			11	5	48	28
Th	Lucy		6	54			14	D sets	N	
F			7	53			18	5 a	5	1
S			7	53			21	6	11	2
G	3 Sun. in Adv. O. Sapient		7	53			23	7	24	3
M	Orf. T. e. [Cam. T. e.]		8	52			25	8	40	4
Tu		Shortest D. at Lond.					26	9	57	5
W	Ember Week	is 7h. 44m. 17c.					27	11	11	6
Th		allowing 9m. 5c.					28	morn		7
F	St. Thomas. Shortest Day	for refraction.					28	0	25	8
S							27	1	35	9
G	4 Sunday in Advent						27	2	42	10
M			8	52			25	3	47	11
Tu	Christmas Day		7	53			23	4	50	12
W	St. Stephen		7	53			21	5	50	13
Th	St. John		7	53			18	6	45	14
F	Holy Innocents		6	54			15	D rises	F	
S			6	54			11	5 a	32	16
G	1 Sunday after Christmas		5	55			7	6	28	17
M	Silvester		5	55			2	7	27	18

y	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So
1	8 4	8 30	5 55	6 5	4 45	10' 18"	10 a 59
6	7 56	38	58	2	43	8 14	37
11	50	44	59	1	41	5 58	15
16	46	48	6 0	0	40	3 32	9 53
21	44	50	1	5 59	39	1 2	31
26	46	o inc. 2	0	6 0	40	1b. 27	9

CHRONOLOGICAL NOTES, &c. in 1792.

Dominical Letter	AG	Roman Indiction	10	Easter Day	April 8
Golden Number	7	Septuage. Sun.	Feb. 5	Ascension Day	May 17
EPIPH	6	Shrove Sunday	Feb. 19	Whit-Sunday	May 27
Cycle of the Sun	9	Lent begins	Feb. 22	Advent-Sun.	Dec. 2

ECLIPSES, &c.

THERE will be only two eclipses in the course of this year, and those both of the Sun; but neither of them will be visible in Great Britain, though the latter of them will be visible in France, and both of them to the most southern parts of Europe, as well as to most parts of Asia and Africa.

I. The first of these will happen on Thursday the 22d day of March, at 56 min. past 5 afternoon.—And, II. The second happens on Sunday the 16th day of September, at 18 min. past 9 in the morning.

VENUS is a morning star till Aug. 6; then an evening star to the end, JUPITER is a morning star till April 15; then an evening star till Nov. 3; and lastly a morning star for the rest of the year.

ANSWERS to the ENIGMAS.

1 Bark	6 Nun	Suppl. Enigmas.	5 Hatchment
2 Paper	7 Happiness	1 Peace	6 Carpet
3 Cork	8 Lamp-Lighter	2 Darkness	7 G
4 Pen or Ink	9 Sound	3 Friendship	8 Taylor.
5 Night	10 or Prize, Frown.	4 Bird's nest	

Answers to the Prize Enigma.

1. By the Rev. T. Baker.

Ye virtuous fair, man's choicest prize,
Dread great Jehovah's Frown:
That when from earth's dark womb ye rise,
Ye may be found his own.

2. By Mr. G. W. Lemon.

Such is my state of sublunary joy—
The shepherd's chaplet, or the monarch's crown
Is a bright jewel, or a tinsel'd toy,
As Laura beams a smile, or hurls a Frown.

3. By Candidus.

Long in bright glory's sphere proud Satan shone,
Long reign'd the fav'rite of th' angelic world;
Till wild with power he grasp'd at heaven's high throne,
And thus from full-orb'd joy to midnight hell was hurl'd.
So when I saw thee, Mary, smile on me,
My heart insidious laid the traitor's snare,
With headlong suit I snatch'd at Heav'n in thee,
But with a scornful Frown thou badst me go despair.

4. Prize

4. *Prize Enigma answered by Adalina.*

With placid mien, and sweet bewitching smile,
 See Laura, Circe-like, all hearts beguile.
 But let her *Frown*, the tyrant's reign is o'er,
 Th' enchantment's broke, and Laura charms no more.

5. *The same by Miss M. B.*

While Polly, eager for the prize,
 Diana's envied crown,
 Perused the page with studious eyes,
 Methought I saw her *Frown*.

On her fair arm repos'd her head,
 She musing sat awhile;
 The secret found, each wrinkle fled,
 And she return'd her smile.

6. *Miss Susan Browne*.*

As deeply musing I one evening sat,
 Resolv'd to find the prize if e'er so late;
 I conn'd it o'er and o'er, at length
 tho't I,
 'Tis Terror sure, or spiteful Calumny.
 Then Envy next appear'd, but fled
 again,
 And for its substitute left Care or Pain
 Th' se would not do.—Well, now tho't
 I, I'm right,
 And Anger took possession of me quite.

'Now bright Apollo! shall thy vot'ry
 gain [fane?
 'A place distinguish'd in thy honour'd
 'Say, shall her expectations now be
 crost,
 'Her hopes all blasted, and her labour
 lost.'
 Methinks upon your brow I spy a
Frown!
 Goodness! I'm right.—Your servant,
 Susan Browne*.

* *Miss Susan Browne is the third of these fair and ingenious sisters who have successively shone with distinguished lustre in our Diary. First Miss Diana, who on her marriage was succeeded by her sister Miss Sally; and this latter, having also bless'd the arms of a fortunate husband, Mr. March, is now succeeded by her younger sister Susan, whose smart wit seems to promise a happy continuance of their ingenious and enlivening contributions.*

7. *By Ascanius, of Kingsbridge.*

Long have I studied o'er the mystic prize,
 Yet to my knowledge still it hidden lies.
 What can it be that made Lothario mad?
 The muse replies a *Frown*, a *Frown*, my lad.

8. *By Matilda.*

Such charms attend on genius, wit, and ease,
 That even a *Frown* from Jones has power to please.

9. *By Mr. Rd. Clark, jun. of Rothwell Haigh, near Leeds.*

I'm your votary Ladies, and beg you'll explain
 An infallible method your favour to gain
 Is modesty, freedom, or flattery the best?
 I hope i'ts not flattery, for that I detest.
 If in condescend dear ladies you'll deign a reply,
 I'll aspire at success, and caprice will d-dy;
 Your dictates I'll practice, and not like a clown,
 Exult at a smile, or despair at a *Frown*.

Many other ingenious and separate answers to the Prize Enigma, (some of which will be found in the Supplement), were given by the following ladies and gentlemen, viz. *Answerell, W. Anderson, Arumet, James Ayres, Rob. Barwick, Jun. J. Bayley, J. Beatham, W. Bearcroft, Tho. Brady, Calophilus, Classicus, B. Cleypole, Mary Clifton, Rd. Cockrel, J. Collett, Wm. Coultas, Jos. Cowing, Edw. Davis, Jas. Davison, Rd. Dening, Edwin of the Valley, John Fildes, Female Friend, Flora, A. Glendenning, J. H., G. Harris, Jos. Hatfield, Rob. Hendy, Junr. Jonath. Hornby, J. Hudson, John Thomas Hughes, J. Hunt, Juvenilis Typographus, Juvenis Boxoniensis, M. Leidman, George Lodge, A. M., Nancy Mason, J. Mann, R. Mountjoy, Novitius, Joseph Nendick, F. O., Oedipus, John Parker, Philander, Anne Porrer, G. Potts, John Pye, Da. Roberts, Alex. Rowe, Philip Russer, John Sampson, Geo. Simkin, Sam. Skarriff, Miss Sngle, Fran. Smith, W. Stone, Wm. Swift, Sylvia of North Shields, W. Tarmior, John Tindale, John Tweddle, M. Tweddle, Urnbooth, Wm. Whiting, Rob. Wilkinjon, Geo. Wright, and Nath. Yoot.*

GENERAL ANSWERS to the ENIGMAS.

1. *Damon to Celice : by the Rev. T. Baker.*

'Twas not on splendour's easy couch, to rest,
'Twas not to boast in riches envy'd store ;
'Twas not to be of num'rous lands possess'd,
Or, that my cup of plenty should run o'er ;
But 'twas with you the *Joys of life* to prize,
And all its sorrows, all its toils to share,
'Till late old age should drop its wintry skies,
And bring that *Ev'ning* you've no cause to fear.
In cheerful confidence I'd pleas'd resign
The pomp of grandeur and the toils of strife,
Wou'd you but join your dear-lov'd hand with mine,
And tread with me the chequer'd path of life.
When thunders roll and frequent light'nings dart,
And boist'rous winds the face of eve deform :
Fondly I'd snatch thee to my trembling heart,
And shield thy softness from th' impending storm.
With lenient hand I'd gently lead thee on,
Thro' life's dark passages and haunts of care,
And when my task of life was almost done,
O bless her, heav'n, should be my fervent pray'r.
But joyless now I waste the tedious day,
And sleepless pass the pensive hours of Night ;
I hear the watchman's Sound ! — *Lamp-lighters* play !
And fortune's *Frogs* is ever in my sight.
Nun-like, sequest'rd by my gloomy will,
Nor *Bark*, nor *Ink*, nor *Paper* yield relief ;
No *Cork* I draw : — no sparkling glass I fill,
But sink a victim to corroding grief !
Yet know, dear maid, I'm not for ever lost,
For these terrestrial forms will soon be *Over* :

And we shall meet on heav'n's celestial coast,
In mutual love and joy—to part no more.

2. *Mrs. Richardson to her Husband: Answering the Enigmas in the Diary and Supplement.*

Come, my love, let us haste to the valley below,
Where Wear, in meanders, flows murmur'ing along;
Let us rove round the plains where the early flow'rs blow,
And weep a farewell to the rustical throng.

Be breathless your flutes, O ye *light*-hearted swains! 3 D
Ye nymphs, mix your Garlands with cypress and yew! 7 S
Let the sweet *Sounds* of melody fly from your plains, 9 D
While we mournfully bid an eternal adieu!

Ye woodlands, and meadows, and vales, full of flow'rs,
Where *Friendship* and love, *Peace* and *Happiness* dwell, 3, 1 S. 7 D
Ye woodbine alcoves, and sweet eglantine bow'rs,
Dear mansions of pleasure! for ever *farewell*! allu. to 6 D

Can nature rejoice when her children are fled,
Who were nurs'd on her bosom, and play'd in her arms;
Who danc'd on her carpet, and slept in her shed, 6 S
Ador'd the fair goddess, and sung of her charms?

No; let her hang out all her *emblems* of woe;— 5 S
Associate, ye clouds, and with *Frowns* fill the sky! Pr.
Ye *warblers*, be mute, and ye groves, cease to blow! 4 S
Ye zephyrs, exhausted, expire with a sigh!

Be the day *dark* and silent as night's awful gloom, 2 S 5 D
(Save the wild gleams of *light'n'ing*, and thunder's rude roll, 8 D
Till our *Penitent* * foes, t' avert their just doom, 2, 4 D
Acknowledge their crimes, with contrition of soul.

While we, gentle pair, on some far distant plain,
(Where the foul tongue of slander no more shall molest,)
Wrapt in pleasures still rising, our Eden regain,
And lead a long life of contentment and rest.

* The Authoress includes a very few individuals in this description; and wishes that few had been none.

1st *Diary* Enig. *Bark*; 7th *Sup.* Taylor.

3. *Diary* Enigmas answered by Miss H. F. P.

O'er untried seas where *Dia*'s Syrens play,
Where riddles and enigmas check my way;
Where dark charades and rebusses appear,
With dubious skill my feeble *Bark* I steer.

Now *Night*, with sable vest and awful *Frown*, 5, 10
Claims universal nature as her own;
Save where the *Link-boy* with his fiery train, 3
Lights up the city, and contracts her reign;
Save where the cloyster'd *Nun* with taper dim, 6
Her

Her evening vigils chaunts, or solemn hymn;
 Or where choice spirits bid the glass go round,
 And many a trophied *Cork* receives a wound;
 Or more refin'd the youthful and the gay,
 Darkness exclude by artificial day,
 With graceful step in mystic circles bound,
 Inspired by sweetest harmony of *Sound*:
 For me, ere sleep subdues my mental powers,
Paper and *Ink* shall entertain my hours;
 Or blest with social joy, in converse sweet,
 Render that *Happiness* I seek, complete.

3

9

2, 4

7

4. *The Same* by Miss Albertina Beauchamp, of Tottenham.

To grasp at *Happiness* is all our view;
 Thro' different tracts her footsteps we pursue;
 While each his own fallacious path approves:
 As int'rest leads, or inclination moves.
 Yet most thro' error lose their wish'd-for way:
 Who sets out wrong must wander far astray.
 Some plung'd in riot, seek their sov'reign good
 From un*Cork'd* spirits, or tumultuous blood.
 By mid-night *Lamps* the poring sage has past
 His painful life, and is deceiv'd at last;
 Huge volumes from his teeming thoughts he draws
 Imagin'd monuments of vast applause.
 No *Frowning* fears the *Nun's* fair breast invade,
 Prayer all her pleasure in the *darksome* shades,
 Above the reach of rumours feeble *Sounds*,
 And fame that circles in surviving rounds.

7

3

5, 8

2, 4

10, 6

2

9

5. *The Same*, by Matilda.

When the *Lamp-lighter* speeds thro' the town,
 And the dark veil of *Evening* is spread,
 Disregarding the world and its *Frown*,
 I enjoy my warm peaceable shed.

2

5

10

Be mine the calm comforts of home,
 With a virtuous affectionate friend;
 Or if sever'd far distant we roam,
Ink and *Paper* our interests shall blend.

4, 2

Tho' no *Nun*, I am fond of the scene
 Where the joys of retirement preside,
 Where few perilous storms intervene,
 As my *Bark* sails o'er times rapid tide.

6

1

Does *Happiness* smile in the round
 Where mirth light as *Cork* bears the *sway*?
 No!—that happiness is but a *Sound*
 That dwells with the thoughtlessly gay.

7

3

9

6. *Amacronic*: by Mr. Wm. Jones, of Hayford.

Come my Laura, nymph divine!
 Charge the goblet high with wine;
 Frowning care shall ever flee
 Blest with wine, and blest with thee.
 Bring the music, Sound the string!
 Love and wine alternate sing;
 Each succeeding each, in turn,
 Make life's *flambeau* brighter burn;
 Crown the day with soft delight;
 Crown with joy, the *lily Night*.
 All my Laura's charms repeat;
 But alas! the task's too great.
 Who can paint her graceful air?
 Who, her matchless shape declare?
 Beauty crowns the lovely whole,
 Spotless *Paper* shews her soul.

She's in brief what few can find,
 All we wish in womankind,
 Blest with Laura and with wine,
 Ev'ry *Happiness* is mine.
 Thus my *Bark* shall ever slide
 Gently through life's ruffled tide.
 Should old age presume to shew
 Icy hand and beard of snow,
 I'll his wily arts controul,
 With a more capacious bowl.
 Wine can heighten ev'ry joy;
 Wine can time itself defy;
 Wine the frozen *Nun* can warm;
 Wine can poignant grief disarm.
 Light as *Cork* the heart must prove,
 Blest with wine and blest with love.

7. *Advice to the Ladies*: by Mr. J. Walton, of Allen-town.

While youth and beauty charm the
 soul,

Improve each killing art:
 But first the mind each care demands,
 To win the virt'ous heart.

'Tis this alone that stands the test,
 When youthful charms are fled;

'Tis this, I say, and only this,
 That glads the bridal bed.

From morn till *Night*, from night till
 morn,

Resounding fame may roar,
 That *Bark's* are sunk, or *Cork* is burnt,
 And there are *Nuns* no more:

Paper and *Ink*, or *Lamps* are scarce,
 And *Frowns* are often rife;

But mut'al bliss will ever cheer
 The loving man and wife.

Then ladies all take my advice,
 "Your lovers conduct scan!"
 For wit and humour please the sense,
 But virtue "makes the man."

8. *Address to Lady Di*: by Miss Peggy Fitzgerald, of Old Moss.

Frown not in spite, at what I write,
 To *Sound* your noble praise;
 The *Light* quick flies thro' the skies,
 Your *Happiness* to raise.

If *Nuns* are fair, what need you care,
 In *darksome shades* they live, [trace,
 Mark in their face, you want may

Not e'en a *Cork* to give.

Nor *Paper* they can send astray,
 Like *treas* with *Mark* surrounded;
 They're forc'd to *lye*, *pine*, *whine*, and
 cry,

While you're with pleasure crown-
 ed.

9. *New-Year's Eve*: by G. D. of Brick Lane, Christ Church.

Welcome! year of ninety-one;
 Peace and plenty with thee come;
 Peace at home, and peace abroad,
 And mirth around this festive board.
 Draw the *Cork*, and fill your glasses,
 Tame your *Nuns* and favorite ladies;

And may this *Night* our joys refine,
 As *Frowns* are seldom found in wine.
 In *Happiness* each hour employ,
 With the *Sound* of mirth and joy.
 Banish passion from our hearts,
 Let our *Lamps* do light to set.

Let

Set no Paper us disgrace,
With any sport that's vile or base,
Every vice with caution shun,
For thousands are by few undone.
Thus may we pass our hours away

In friendship innocently gay,
Hoping our Bark will glide us even
Onward to the port of Heaven,
My Pen I'll quit, and jovial crew
Till this eve returns anew.

10. *Courtship: by Mr. John Jackson, of Hutton-Rudby School.*

When Strephon erst his Phillis wooes,
An angel then, she is, he vows;
On Paper, Pencil-her praises high,
And fames her virtues to the sky.
No Lampman's torch can blaze so
bright,
As Phillis does in Strephon's sight,
Nor copper-plate's impression shew
A picture half so neat to view.
As woodcock soft her hands he feels,
Sounding her praises, down he kneels.
No jealous Frown attends the brow,
Nor any care affects him now.

No Barking puppy e'er affrays
The Nightly visits which he pays;
But light as Cork he trips along,
And hails his Phillis with a song,
And if with tea and toast the treat,
Or glass of wine he chance to meet,
A ribband he to her returns,
And says his soul in rapture burns,
That penance or the friar's fun
Shall ne'er cause her to be a Nun;
But if to wed she condescends,
There our Strephon's courtship ends.

11. *Address to Lady Diaria; answering the Enigmas in the Diary and Supplement: by Aramont.*

What awful Frowns think you, dear
Di,
Has my intention cross'd;
Both Ink and Paper I did buy,
But all's in Darkness lost;
Must I my Nightly tho'ts put-on?
Now Di Cork up my brain;
And like the muting virgin Nun,
Unheeded sing in pain. [move]
Must I my Sounding strings re-
From off my Carpet gay,
And like the Nestling songster's rove
Where Peace her charms display?
Or must I for a Monument
Be parted from your throng,

And sink myself in discontent.
To Bar my Happy song?
No, no, dear Di, once more I'll stand
To you my verse relate,
And try if fortune will bestead,
And open me the Gate.
That I like some Lamp-lighter's torch
May shine amid your train,
And sit with Friendship on her coach
To guide the erring swain,
For all the rustic throng to see,
How Aramont did rise,
How Taylor-like he valiantly
Did spring to gain the prize.

The editor is truly sorry that room will not admit of some of the very ingenious solutions by the following ladies and gentlemen, viz: Adeline, Almswell, Amicus of Egedon, Jas. Ayres, Job Ayres, Rob. Barwick, junr, J. Bayley, W. Bearcroft, Geo. Bewick, Geo. Biggs, Susanna Browne, W. P. Burdett, John Burrage, Calophylus, John Campbell, John Cavill, Mary Clifton, J. DeCade, J. DeCade, Wm. Coulton, Country Carpenter, Country Correspondent, Sam. Cooper, John DeCade, Jos. Dale, Edward Davis, J. Davis, Rd. Denton, Rob. DeCade, John Elliott, Rev. J. Eubank, Wm. Exall, Mrs. Sophia Fawcett, S. G. of Fawcett, Tbo. Giler, M. Glendenning, Olinthus Gregory, John Griffith, J. Hartley, Jos. Hatfield, Wm. Hitchinboam, Bliz. Hodgson, Jr. Holt, Jonathan Hornby,

Hornby, John Tho. Hagben, Jacobus of Norwich, John Liddell, Lincenhiens, A. M., Nancy Mason, Henry Mellanby, R. Mountjoy, Jos. Nendick, Rd. Nicholson, Norwichiensis, John Parker, Plumpin, Anne Parter, Da. Roberts, Alan. Rowe, Rd. Rowe, Phil. Russer, John Ryley, Fra. Smith, W. Stans, Wm. Swift, Wm. Tarmier, Terpsiphilus, Mat. Thorpe, John Tindale, Rob. Wilkinjon, Geo. Wright, and Nath. Yost.

ANSWERS to the REBUSES and CHARADES.

Rebuses.		Charades.	
Diary.	Sup.	Diary.	Sup.
1 Tea and Toast	Wigan	1 Woolfack	Mandrake
2 Care	Wax	2 Manage	Dove-house
3 Glass	Husband	3 Courtship	Snow-drop
4 Pen.	Left-hand.	4 Ribband.	Sackbut.

1. The Invitation: by Francisca,

I take up my pen with great glee,
In hopes to prevail with my friend,
To partake of my *Toast* and my *Tea*,
And with me the long evening to spend.

O haste Margaretta away,
We'll *Manage* to cast off all *Care*.
No lovers in *Courtship* more gay,
Nor those who the social bliss share,
Let lawyers to *Woolfacks* aspire,
For *Ribbands* let courtiers attend,
No joy like a good winter fire,
When blest with a sensible friend.

2. The Same answered by Miss Peggy Fitzgerald, of Old Moss.

I'd made *Toast* and *Tea*, to drive *Care* away,
And drank a full *Glass* of good wine;
When Jackey came in, with a *Penetrant* grin,
Saying Madam your *Sack*'s very fine.

I cry'd out, thou elf, I know it myself,
This flatt'ry on me's thrown away;
I wish thee more wife, till then hold thy noise,
For I'd far rather hear an ass bray.

To *Manage* him so, I thought he would go,
For in *Courtship* he came unto me;
Tho' with *Ribbands* most brave, many a present he gave,
To me he shall ne'er wedded be,

3. *The Same, by Miss Sabanna Browne, of Hamilton.*

Tea and Toast, Care, Glass, and Pen,

Answer the rebuses——What then?

Woolfack, Manage, Courtship too,

Answer three charades quite true.

The last's a *Ribband*——So adieu.

4. *The Rebuses answered, by a Philosopher of Hutton-le-Hole.*

Away with your *Tea* and your *Toast* and your *Glass*——

I *Care* not a fig for your diary or last,

If you grant me potatoes, a *Pen*, and an ass.

5. *The Rebuses and Charades ansf. by Mr. Wm. Gradidge.*

Let *Care* be banish'd out of sight;

And *Courtship* take its place to night.

The man who doth not take his *Glass*,

And in a bumper toast his last,

We will pronounce a very ass!

Let's *Manage* well the time we've got,

And after one more sober pot,

We will to loving *Ribs* go back,

And take our rest on our *Woolfack*.

Then in the morn' let you and I

Indite a verse for lady Di,

Our *Pens* let's use in *Di*'s praise,

For well she claims our warmest lays.

6. *The Wish; answering the Rebuses; by Mr. G. W. Lemon.*

Grant me, ye Gods, a gen'rous fair,

Who'll make my *Toast* and *Tea* with pleasure;

A cheerful *Glass* to banish *Care*,

A *Pen* to scribble at my leisure.

7. *The Wedding; answering the Charades; by the Same.*

As Dolly and Hodge on a *Woolfack* were seated,

One evening by moonlight in May,

With a ring and a *Ribband* the damsel he treated,

And beg'd her to name the blest day:

Untaught in the art to deceive and to flatter,

In *Courtship* true love was their guide;

And the swain knew so well how to *Manage* the matter,

In a fortnight he made her his bride.

8. *The Answer, by Jacobus of Norwich.*

Dear Sir, permit a youthful hand,

Each rebus and charade to send. [*Glass*,

There's *Tea*, *Toast*, *Ribband*, and a

With *Courtship* for a pretty last.

Then *Manage*, *Woolfack*, *Pen* and *Care*,

I think will answer all last year.

This is my first, so Sir I crave

A place in Lady Di to have.

To Eliza: by Mr. Dr. Roberts, of St. Omer.

<p>Come Eliza, let us wander Near you deep sequester'd mazes, Where the purling rills meander, Thro' the meadows and the daisies: There our talk may be religious, Or of <i>Hymen</i>, blissful station, Or of lovers most perfidious; As it suits our inclination. Envy never shall disturb us, Nor the pride of kings or courts;</p>	<p>Fatal Care shall ne'er absorb us, All our pride's in rural sports; See the nymphs with <i>Ribbands</i> flow' Screwing flow'rets in the way, Ev'ry stripling sweetly shewing, Welcome is the first of May. Not the judge on <i>Woolpack</i> scared, Can such genuine pleasure boast; Nor <i>Pensive</i> ma'am to lords related, Tho' she be a reigning <i>Taunt</i>.</p>
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ANSWERS to the QUERIES.

QUERY I, answered by Mr. John Dalton, of Kendal.

The pleasure arising from conferring an obligation, especially if it be effected without much inconvenience, is pure, and must be a grateful sensation to a generous mind; but that arising from receiving an obligation is often mixed with the unpleasing reflection of inability to remunerate the benefactor. It is pretty clear, therefore, that the pleasure of conferring an obligation must exceed that of receiving one.

The Same, by Mr. Richard Rowe, of Probus.

I am not of opinion that the being under an obligation to another, can give any real pleasure to a generous spirit; it may indeed give a seeming satisfaction, in having found such a friend. But the conferring of an obligation, especially when the object merits it, must give intrinsic delight to the truly generous soul.

QUERY 2, answered by Mr. W. Bearcroft, of Kirby-Moor-side.

No: for love, taken in the fullest extent that the heart is capable of, must be confined to *one* object, and *undivided*; but that of a person situated as in the query, is evidently divided between two; for though time may *lessen* the affection for the former, it can never wholly efface it while the heart remains susceptible of that tender passion.

Should any person, more happy in a second than in a first marriage, object to this, they may be told that 'tis an hundred to one that they were not capable of feeling the passion of love in the fullest extent, agreeable to the conditions of the query; and perhaps ten to one that they did not love at all.

The Same, by Mr. John Dalton, of Kendal.

It will be generally allowed that in sustaining the disappointments incident to life, true fortitude would guard us from the extremes of insuperable melancholy and stoic insensibility, both being incompatible with our own

ginefs and the good of mankind. If therefore the passion of love have not

acquired too great an ascendancy over the reason, we may, I think, conclude that true magnanimity may support the shock without eventually feeling the mental powers and affections enervated and destroyed by it, and consequently that the query may be answered in the affirmative. However, if this passion be too strong, when compared with the other faculties of the mind, it may be feared that the shock will enfeeble it so as to render the exercise of its functions in future much more limited than before.

QUERY 3. *Answered by Mr. Ralph Burton, of Salton.*

Inflammable spirit is an ethereal oil, obtained from fruits by fermentation and distillation. Sugar is the crystals of a saccharine juice of vegetables, by expression and crystallization, and according to the chemical laws of attraction, have a greater affinity with water, than with oil.

The Same, by Mr. Dalton.

Probably spirits dissolve sugar solely by reason of the water they contain, and this being only a part of their composition, renders the solution more slow than when the whole menstruum is pure water.

QUERY 4. *Answered by Bartonienfis.*

Warm bread continually emits a watry vapour. If the body on which it is placed be impervious, and cold, the vapour is condensed, and thereby wets the body. That this vapour is really water, dissipated by heat, is rendered evident by putting pieces of hot bread into a glass vessel, and inverting it: the vapour will ascend, and becoming condensed at the top, will trickle down the sides of the vessel in drops.—Warm bread also loses of its weight by the evaporation of the moisture.

NEW ENIGMAS.

I. ENIGMA 742, *by Mr. John Bayley, of Middleton, Yorkshire.*

Ye enigmatic bards, whose mystic skill,
Disguising trifles, make them please at will,
Deign to attend, and think it no disgrace
To give a harmless masquerader place.

When first created, sol's enliv'ning light
Shot thro' the chaos of eternal night,
At that great hour did I descend to earth,
From parent sol, the author of my birth;
Not born with man, but yet I did appear
At the first moment that he enter'd here;
From thence existing to this present time,
I traverse ev'ry nation, ev'ry clime:—

Obvious to all, I sport upon the plain,
 Tasteless of joy, insensible of pain,
 All forms, all shapes, promiscuously I wear,
 Not Proteus' self did in more shapes appear.
 Tho' nor body, nor substance can I claim,
 Yet form and substance seem to be my frame.
 Touch me you may, but I can ne'er be felt,
 Nor ever yet was tasted, heard, or smelt.
 Take one hint more, then sure you'll guess me right,
 Tho' dark myself, I am a child of light.

II. ENIGMA 743, by Eliza S—— of the Dale.

Primevally amid the grove,
 I with the warbling songster's rove,
 With them o'er flow'ry lawns I stray,
 And hail with them the new-born day;
 Oft on the glassy stream I'm bore,
 Or thro' the fields of ether soar;
 Aurora's streaks, or Flora's die,
 Cannot my radiant tints outvie;
 The green, the azure I unfold,
 The scarlet and the burnish'd gold.
 For you, ye fair, in snowy white,
 Or sable hue I take delight:
 In station high with quick advance,
 I join with you the sprightly dance;
 Or should you unto court repair,
 You'll find me grace the ball-room there.
 I deck the laurel'd hero brave,
 Where trumpets sound, and banners wave;
 When the third Edward's conqu'ring arms
 O'er Gallic plains spread dire alarms,
 On Cressy's memorable day,
 Amid th' insanguin'd field I lay,
 Distinguish'd soon a trophy won,
 They bore me to his warlike son—
 But ladies hold—I must have done.

III. ENIGMA 744, by Mr. Ralph Dutton, of Hull.

Ladies, throw off the veil, and make appear
 A fellow wand'rer thro' this world of care.
 Hope and despair together I mix up;
 Bitter and sweet at once in the same cup.
 Of pain and pleasure I a compound am;
 And human life, ye fair, is just the same.
 I vex—I please—I give delight and pain;
 Try to escape me, and you'll try in vain.

Like

Like war, I oft produce both joy and feat;
 If war draws blood—I often draw a tear;
 If war produces swords—I fight with darts;
 If war can conquer towns—I conquer hearts.
 That man may conquer man, no doubt is true;
 But I oft conquer man and woman too.
 Sampson, who by his strength his thousands slew,
 Threw down his club when I appear'd in view:
 And David, who the mighty giant kill'd,
 Disgrac'd his conquests, and to me did yield.
 In wisdom's school dominion too is mine,
 For Solomon has bow'd before my shrine:
 And yet despair not, O ye charming fair!
 Since when I throw my well-directed spear,
 Tho' sure to wound—yet not against your wills,
 I give a pleasing blow that seldom kills.
 Then ladies please to tell me what I am,
 And I will strive to please you if I can.

IV. ENIGMA 745, by Mrs. Eliz. Richardson, of *Wolfsingham*.

When painted ladies boast their power t' engage
 Young tender hearts, and tempt the hoary sage,
 And melting music thro' the valleys rings,
 I mount aloft, and stretch my golden wings:
 'Twixt earth and heav'n, where human foot ne'er tread,
 I rise prepar'd to meet the fiery God.
 With him I boldly traverse thro' the day,
 Then back recoiling meet his morning ray.
 But when I feel the pale moon's cold embrace,
 I furl my sails, and veil my copper face.

V. ENIGMA 746, by Mr. John Singleton, of *Astton Free-School*.

No form dear ladies is to me assign'd,
 Yet still I charm and captivate the mind;
 Bereft of me, all social pleasures fly,
 You live dejected, and unpitied die:
 Oh! shield me then ye ever-virtuous fair,
 And guard me always with peculiar care.
 I lead the hero to th' ensanguin'd plain,
 Where death and bloodshed universal reign;
 Inspir'd by me, he nobly scorns to yield,
 And spreads dread havoc thro' th' embattled field.
 For me the bard's descriptive fancy soars
 Thro' fields of ether, and to distant shores;
 Describes the beauties of the verdant spring,
 Does summer's heat, or yellow autumn sing.
 No more, ye fair—my name too plain I tell,
 So till next year obsequiously farewell.

VI. ENIGMA

VI. ENIGMA 747, *by Mr. Geo. Heriot, Widdows.*

Sprung from my parent soil; I'm made by art,
 And by my use I food to man impart:
 Stretch'd to my full extent, the rain, the wind,
 Alike through me an easy passage find.
 On carriage which no creature draws, I ride,
 And from my seat by slow degrees I glide;
 Returning home, a bending space I hold,
 And numbers in my wide embrace enfold;
 Tho' great and small become alike my care,
 I keep the great ones, but the small I spare.

VII. ENIGMA 748, *by Mr. James Davison, Newcastle upon Tyne.*

Long have I reign'd, in ev'ry age and place,
 The joy and terror of the human race;
 Of all the earth, and the more spacious sea,
 There's not a part remains unknown to me.
 Though free as air I rove, and scorn a bound,
 In caves, mines, dens, and sunnieries I'm found;
 The hermit, slave, and fearful refugee
 Fly from the world, but cannot fly from me.
 When heav'n indignant opens all its stores,
 When the earth trembles, and the ocean roars;
 When faint the strong, the comely lose their grace,
 And ghastly ruin stares in ev'ry face,
 Then I rejoice: yet not in woe alone
 I triumph; for to pleasure too I'm known;
 I frequent to the splendid table steal,
 And in disguised smiles my spite conceal;
 There load the steaming plate, rich liquors quaff,
 And join the florid jest, and swell the laugh.
 At other times I visit routs and plays,
 Cardings, assemblies, concerts, operas:
 And soon or late the jovial company
 Each in their several turn dance down with me,

VIII. ENIGMA 749, *by Mr. Tho. Leybourn, of North Shields,*

When winter storms and tempests disappear,
 And milder skies foretel that spring is near;
 Then birds on branches perch'd, or on the wing,
 At nature's joyful restoration sing.
 When lengthen'd days to Britain's isle shine forth,
 The opening summer ushers in my birth.
 Kind sol's enliv'ning heat makes me appear,
 The pride and glory of the circling year.

Tho'

Tho' hurtful is my parent, my attire
 Has charms which all the nymphs and swains admire.
 When fair Lauretta is most gayly drest,
 She oft admits me to her lovely breast:
 What happiness to Strephon wou'd it be
 Cou'd he enjoy such liberty with me!
 Belov'd by all, such colours I display,
 As e'en transcend the verdant growth of May.
 The purple violet, and lilly fair,
 To me are faint, with me they can't compare.
 The valley I adorn, and silent grove,
 Each sylvan scene with beauties I improve.
 Aurora's face does oft with mine agree;
 In fine I'm beauty in epitome.

IX. ENIGMA 750, by Mr. J. Walton, of *Allen Town*.

Let others sing th' achievements of the great,
 Empire, and arms, or all the pomp of state:
 Be mine the task, the modest theme be mine,
 In enigmatic humble strains to shine.—
 Come then my muse, celestial goddess come,
 Inspire my soul, and teach me how to shun
 The slightest hints, or softer whispering sound,
 Of what, to keep, in gratitude I'm bound:
 For why should I, a worthless friend, proclaim,
 What none presume, but treach'rous souls to name.

At first I'm to some confident assign'd,
 Whose worth is known, when I am most confid'd,
 My author too, suspecting noisy fame,
 Would snugly have me kept for fear of shame.
 And then by mutual faith they fix my doom
 To lie interr'd within a living tomb.
 But if I rise, with well-fledg'd wings from thence;
 Then dread ye fair, Oh! dread the consequence,
 For closest ties of friendship I dissolve,
 And conscious guilt in poignant grief involve.
 When least I'm known, I'm held in most repute:
 But if well known, I often cause dispute:
 I'm soon forgotten,—unregarded die,
 Am antiquated, or neglected lie:
 Yet in affairs of moment to the state,
 I'm by the faithful kept inviolate;
 Brought forth in courts, nurs'd in the cabinet,
 Then sent abroad to stop impending fate.

But hark, ye fair!—Is it the truth or not,
 That none but men regard me as they ought,
 'Tis false.—In either sex, or old, or young,
 Since time began, or where the circling sun

Illumes the east, or leaves th' impurpl'd west,
 I've met with friends of real worth possess.
 Then why should men the weaker sex condemn,
 When they themselves are equally to blame.
 But still the worse, against the better rail,
 And fools the wise with keenest spite assail.
 Cease then reproof, let sharp invective cease,
 And strive, oh! strive to gain eternal peace.

X. or PRIZE ENIGMA 751, by Mr. Tho. Truswell, of Nuneaton.

[Whoever answers it before Candlemas Day has a chance for 10, and another for 8 Diaries.]

Near Ebor's grove, where gentle shepherds gay,
 Salute the coming and the parting day;
 Or near the banks where soft meanders glide,
 And wanton fishes meet the waving tide;
 There was I born, and long did there remain,
 The pride and glory of Britannia's plain;
 'Till brooding horror sought this earthly ball,
 And cruel hands made mighty princeps fall;
 Then soon alas! I fell; O hapless morn
 When I was from my fostering parent torn;
 Unlike great chiefs who are in battle slain,
 For if once fall'n, I fall to rise again.
 Hot summer's suns and frigid winter's breeze,
 When blust'ring Boreas shakes the leafless trees,
 I'm forc'd to bear, and have for ages past,
 And shall whilst pride and gaitly shall last;
 Terrific, awful, then my form appears,
 The dismal gloom of long succeeding years.
 With bars of steel am fast in prison tied,
 And sharp'ning tortures pierce on every side;
 Submissive captives bow before my shrine;
 Imploing mercy of the God divine.—
 The Grecian bards in ancient story tell
 I rais'd my head when mighty Philip fell;
 The murderer fled, the Macedonian train
 Did weep to see their royal leader slain.
 Soon vengeance followed, sharp resentment flew
 With rapid wing, and soon Pausanias flew:
 The sons of Greece in triumph smile to see
 The Macedonian youth upheld by me.
 Then O ye fair, whose piercing minds can soar
 Thro' paths of learning never trod before;
 O trust in God, revere his sacred laws;
 My name reveal, and shun the direful cause.

NEW REBUSES, CHARADES, and QUERIES.

I. REBUS, *by* Aminicus.

Unto three-eighths of Saul's beloved son,
Be pleas'd to add one half of Jacob's brother:
So will you quickly find, if rightly done,
The nymph of whom I am sincere a lover.

II. REBUS, *by* Mr. William Wardley.

If to a cloyster'd maid you join
What all must do whene'er they dine;
To these, reversed, what we say,
When we refuse to go or stay;
Unto the world will be display'd,
The town where I this rebus made.

III. REBUS, *by* Mrs. Hallilay.

The royal title greets your list'ning ear;
The heathens blissful seat your spirits cheer;
The son of Jupiter, in music fam'd;
The daughter too, by joyous sportsmen nam'd:
Th' initials join'd, a lady will discover—
In earthly virtues none can be above her.

IV. REBUS, *by* Eliza S———, *of the Dale.*

The ancient seat of every art refin'd,
An English king who Magna Charta sign'd,
A queen of Egypt for her beauty fam'd,
A Trojan hero who is often nam'd,
A goddess that o'er wisdom bears the sway,
With him who to the savage beasts did play,
He who presideth o'er the wat'ry main,
She who Apollo-courted, but in vain;
These few initials join'd will bring to view
A town in Yorkshire, equall'd yet by few.

I. CHARADE, *by* Mrs. Richardson.

My first rides aloft on the loud roaring waves,
And dwells in the musical vale;
My next stands as Centinel; servant to slaves,
While hardships and bruises assail.
As my first and my second accomplish my whole,
So my last, with my foremost, arc body and soul.

II. CHARADE, by Mr. Philip Rusher.

To Job from midst the whirlwind once was told,
The matchless spirit of my martial first;
For healing art my next was fam'd of old,
When errant heroes fought, and ladies nura'd.
Detested whole ! (whose offspring Agur tells)
That lov'd to feast midst ever-streaming gore,
Whose sanguine thirst enjoyment never quells,
But fill'd with blood, insatiate cry'd for more !

III. CHARADE, by Mr. John Savage, of Coventry.

Ah fatal first, thou sad unwelcome guest
To many—yet to some their kindest friend.
Nail-soothing second, place of sweetest rest,
Each nymph and swain do gladly thee attend.
Thou solemn whole ! may all be fit for thee,
And so be happy in eternity.

IV. CHARADE, by Miss M. Fitzgerald, of Old Moft.

My first to the face of the sick is confin'd;
My next is a weight of great moment you'll find;
Pray be not my whole, Oh ! I charge you, ye fair;
Or your credit, your fortune, and health you'll impair.

I. QUERY, by Aramont.

Whether can a handsome widow or a virtuous old maid bestow the more agreeable charms on a husband.

II. QUERY, by Miss Eliz. Baylie, of Chesham, Bucks.

Is it a good way for a young woman to get a husband, to entertain many lovers at once.

III. QUERY, by Mr. John Merriland, of Stony Stratford.

Is it harder to gain a woman's love, or to keep it when gained.

IV. QUERY, by Mr. Ralph Dutton, of Hull.

Required the origin of the popular story of Dr. Faustus.

V. ASTRONOMICAL QUERY, by a Lunarian.

Is the outward arc of the enlightened part of the moon's apparent disk, any time apparently less than a semi-circle.

ANSWERS to the MATHEMATICAL QUESTIONS.

QUESTION 924 answered by Mr Jos. Garnett, from Mr Rodham's Academy, Richmond, Yorkshire.

By the Question x , y , and z , are to be whole numbers, and from the 3d equation no one can be above 20; and some one must be more than 14. Now from the 1st equation the three roots must evidently be some of the divisors of 160, which are 1, 2, 4, 5, 8, 10, 16, and 20, among which there are only two above 14, viz. 16 and 20; therefore the numbers are either

$$16 \begin{cases} 10 \text{ and } 1, \\ 5 \text{ and } 2, \end{cases} \text{ or } 20 \begin{cases} 8 \text{ and } 1, \\ 4 \text{ and } 2; \end{cases}$$

of which 20, 8, and 1 are the only ones that will answer the conditions, and the word is HAT.

The same answered by Mr J. Holt, of Manchester.

Because no word can be formed without a vowel, the value of one of the unknown quantities must answer to a vowel, and be such that the product of the other two in the first equation be a composite number; but 1 and 5 only have these properties. Now if 5 be substituted for x in the 2d equation, then $y^2 + z^2 = 440$; but no two perfect squares whatever will make this number; therefore $x = 1$, consequently

$$y^2 + z^2 = 464, \text{ and } yz = 160; \text{ from this latter equation } z = \frac{160}{y},$$

$$\text{which value of } z \text{ substituted in the former, it becomes } y^2 + \frac{25600}{y^2} =$$

464, or $y^4 - 464y^2 = -25600$, the two roots of which quadratic equation are 8 and 20, which are the values of y and z . Hence the required word is HAT.

The same by Mr Da. Kinnebrook, Jun. of Norwich.

Let $x + y + z = s$, and $xy + xz + yz = r$; then will $x^2 + y^2 + z^2 = s^2 - 2r$; also $x^3 + y^3 + z^3 - 3xyz(480) = s^3 - 2r \times s - 3rs$, and $x^3 + y^3 + z^3 = s^3 - 3rs + 480$, whence come these two equations $s^2 - 2r = 465$, and $s^3 - 3rs + 480 = 8513$; from the first $r = \frac{s^2 - 465}{2}$, which makes the latter become $s^3 - \frac{3s^3 - 1395s}{2}$

$$+ 480 = 8513, \text{ or } s^3 - 1395s = -16066, \text{ where } s = 29 = x + y + z. \text{ Now by the 1st and 2d original equations } xy = \frac{160}{z} \text{ and } x^2 +$$

$$y^2 = 465 - z^2, \text{ therefore } x + y = \sqrt{465 - z^2} + \frac{320}{z}, \text{ and } x +$$

$$y + z = \sqrt{465 - z^2} + \frac{320}{z} + z = 29; \text{ hence } z^3 - 29z^2 + 188z = 160, \text{ the roots of which equation are } 1, 8, 20; \text{ which, as the}$$

C.

unknown quantities are alike concerned, are the values of x , y , z answering to HAT.

Nearly according to one or other of these methods was the solution given by Messieurs James Adams, Amicus, Job Ayres, Geo. Barnes, A Bengal Officer, Geo. Beswick, T. Bournley, A. Buchanan, T. Bulmer, Wm. Burden, John Campbell, John Cavill, Peter Charleston, Jos. Cowing, Chris. Cox, John Craggs, John Culher, James Canliffe, James Dak, John Dalton, Rd. Dening, Rob. Dowden, John Elliott, Rev. L. Evans, J. Ferraby, A. Glendenning, G. Greaves, J. Griffiths, T. H., J. Hartley, J. Haycock, Jcs. Heslop, J. Howard, Wm. Lacos, Tho. Leybourn, Wm. Lawton, John Liddell, Nancy Mason, R. Mountjoy, James Mulcaster, Rd. Nicholson, Jacob Park, W. Pearson, Alex. Rowe, Rd. Rowe, John Ryley, John Sampson, Wm. Sanderison, Ra. Simpson, Col. In Skewes, Geo. Stevenson, W. Tarmior, Henry Taylor, Wm. Tomlinson, John Tweddle, Wm. Virgo, Wm. Wardley, J. Whitcombe, Thos. White, A. Whitabouse, Rob. Wilkinson, and S. Woolcott.

II QUESTION 925 answered by Mr M. Mooney, Dublin.

Put $3z = y$, and $4z = x$; then by substitution, &c. $5z = \sqrt{7x^2}$; hence $z = \frac{7}{125}$; consequently $x = \frac{28}{125}$, and $y = \frac{21}{125}$, the least values of x and y .

Or, universally: Put $mx = x$, and $nz = y$; then, by substitution, $\sqrt{m^2 + n^2} \cdot x^2 = \sqrt{m^2 - n^2} \cdot x^2$. Put $m^2 + n^2 = a^2$, and $m^2 - n^2 = c$; then the equations become $ax = \sqrt{cx^2}$, or $a^3x^3 = cx^2$, and hence $x = \frac{c}{a^3} =$ (by restoring the values of a and c) $\frac{m^2 - n^2}{(m^2 + n^2)^{\frac{3}{2}}}$; consequently $x = \frac{m^2 - n^2}{m^2 + n^2} \times m$, and $y = \frac{m^2 - n^2}{m^2 + n^2} \times n$, where m and n may be taken any numbers at pleasure, so that m be greater than n , and the sum of their squares a square. If $m = 4$, and $n = 3$, then will $x = \frac{28}{125}$, and $y = \frac{21}{125}$, the same as before; but if $m = 12$, and $n = 5$, then will $x = \frac{1428}{2197}$, and $y = \frac{595}{2197}$; and so of others.

The same by Mr John Dalton, of South-Cave.

Since x and y , in the given equation $\sqrt{x^2 + y^2} = \sqrt{x^2 - y^2}$, are to be rational numbers, it is plain they must denote the two legs of a right-angled triangle whose three sides are rational Numbers. And because $3^2 + 4^2 = 5^2$, say as $x:y::4:3$, or $y = \frac{3}{4}x$; this being substituted for y in the given equation, by reduction it becomes $125x^2 = 28x^2$, or $x = \frac{28}{125}$; and consequently $y = \frac{3}{4}x = \frac{21}{125}$. This question admits of as many answers as there are right-angled triangles whose three sides are rational numbers.

The same by a Bengal Officer.

By raising each side of the given equation to the 3d power, it becomes $x^2 + y^2)^3 = x^2 - y^2)^3$. Let $x = ny$, and it will become $y^2 \cdot n^2 + 1)^3 = n^2 - 1)^3$, and $y = n^2 - 1 \div n^2 + 1)^{\frac{3}{2}}$. Here n must be greater than unity to be affirmative, and $n^2 + 1$ a square number to be rational. This can only happen when n is taken equal the base of a right-angled triangle divided by the perpendicular, as $\frac{4}{3}$, $\frac{12}{5}$, $\frac{24}{7}$, &c.

Now if $n = \frac{4}{3}$, $y = \frac{21}{125}$, and $x = \frac{28}{125}$.

But if $n = \frac{12}{5}$, $y = \frac{595}{2197}$, and $x = \frac{1428}{2197}$. &c.

Had the given equation been $3x^2 + y^2 = \sqrt{x^2 - y^2}$, then would x = the hypotenuse divided by either leg.

Mr. Geo. Barnes says, Your correspondent *Dublinensis* is either deceived himself, or has been very ingenious in imposing this question upon you as new: though so much changed in form, it is the same as *Quest.* 436, proposed in the *Diary* of 1765, and answered in the next year's *Diary*; or *pa.* 216, 220 of *Hutton's Diarian Miscellany*, vol. 3.

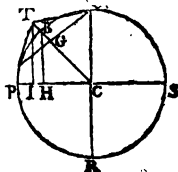
Other ingenious answers were given by *Messieurs Amicus, Barnes, Bournley, Buchanan, Bulmer, Cavill, Cox, Craggs, Cullyer, Cunliffe, Dalton (of Kendal), Ferraby, Griffith, T. H. Hartley, Haycock, Holt, Howard, Kinnebrook, Lawton, Leybourn, Mulcaster, Park, Pearson, Rowe, Ryley, Sampson, Simpson, Skewes, Stevenson, Taylor, Tomlinson, White, Wilkinson, and Woolcott.*

III QUESTION 926, answered.

N. B. The number of acres was printed wrong in this question, one of the 2's being left out, for the number should have been 48002226, and not 4800226. Most of the correspondents have taken notice of the inconsistency in the numbers, and some have corrected them by taking the area seen to be 10 times that given, and others by taking the difference of the paths of the top and bottom of the mountain to be $\frac{1}{10}$ of that which is given, viz. .6 instead of 6 miles, both which alterations have the same effect, and bring out the answers true very nearly.

The Solution by Mr Geo. Barnes, of Wigton.

There appears to be some error in the numbers in this question, for in the present form the question is impossible. Let therefore the number of acres of the earth's surface seen from the top of the mountain be increased tenfold, viz. let it be 48012260 acres = 75019 square miles. Now the radius being 3982, the circumference is 25019 miles; hence (by *Dr Hutton's Mensuration* 2d edit. *pa.* 197) $75019 \div 25019 = 3$ miles



nearly is $= \text{BG}$ the versed sine of the segment; hence $\text{CG} = 3979$, and then $\text{CQ} : \text{CB} :: \text{CB} : \text{CT} = 3985$ miles; hence $\text{BT} = \text{CT} - \text{CB} = 1$ miles, the height of the mountain.

Now, if QR be the equator, and PS the polar axis of the earth; also NB and IT are the radii in which the bottom and top of the mountain move, and the $\angle \text{NCB}$ the co-latitude, the sine of which angle put $= x$;

then $3 \cdot 1416 \times 2 \text{CB} \times x =$ space gone over by B in 24 hours,
and $3 \cdot 1416 \times 2 \text{CT} \times x =$ space gone over by T in the same time;
theref. $3 \cdot 1416 \times 2 \text{BT} \times x$ is their dif. $= 6$ miles;

and hence $x = \frac{1}{3 \cdot 1416} = \cdot 31831$, the natural cosine of $71^\circ 27'$ the latitude of the mountain sought.

[This ingenious gentleman is desirous of engaging with any gentleman, who may have occasion, as an assistant in the Mathematical or Classical line. Letters to be addressed to him at Wigton in Cumberland.]

The same answered by Mr J. Whitcombe, Plymouth.

First, $4801226 \div 640 = 7502$ square miles, the segment's surface; also $3982 \times 2 \times 3 \cdot 1416 = 25019$, the circumference; therefore $7502 \div 25019 = \cdot 3$ nearly $= \text{BG}$, the height of the segment; also $\text{CG} : \text{CB} :: \text{CB} : \text{CT} = 3982 \cdot 3$, and hence $\text{BT} = \cdot 3$ the mountain's height also.—Put $\text{BN} = x$;

then $3 \cdot 1416 \times 2x$ the circumference described by B ; and, by sim. figures, $\text{CB} : \text{BT} :: 3 \cdot 1416 \times 2x : \frac{3 \cdot 1416 \times \cdot 6x}{3982} = 6$, the difference

of the circumferences described by B and T ; this gives x or $\text{BN} = \frac{6 \times 3982}{1 \cdot 88496}$, which is much greater than the radius, which is impossible.

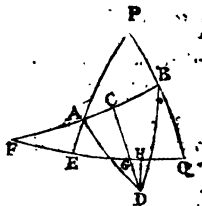
But if the proposer meant $\cdot 6$ instead of 6 , then is x or $\text{BN} = \frac{3982}{3 \cdot 1416} = 1267 \frac{1}{2}$ miles, the cosine of the latitude $= 71^\circ 26' 22''$, to the radius 3982 .

Solutions to this question were also given by Messieurs Adams, Amicus, Bengel Officer, Bulmer, Burdon, Campbell, Cavill, Charlton, Cook, Cox, Craggs, Gullyer, Dowdin, Ferrobby, Garnett, Glendenning, Griffiths, Hartley, Haycock, Holt, Kinnabrook, Lewis, Lawton, Leyburn, Liddell, Mooney, Nicholson, Park, Pearson, Pritty, Roberts, Rowe, Ryley, Sampson, Taylor, Tomlinson, White, Whitehouse, Whiting, Wilkinson, and Woolcott.

IV QUESTION 927 answered by Mr Da. Kinnabrook, jun.

Let P be the North Pole, BQ part of the equator, PE , PQ meridians, intersecting in an angle EPQ of 50° the difference in longitude of the two ports A and B , $\text{EA} = 30^\circ$, and $\text{QB} = 40^\circ$, also if

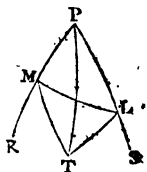
the arc AB be drawn and bisected in C , by a perpendicular CD , meeting a parallel in 18° South latitude, at the point D , and the arcs AD , BD be drawn, it is evident from the figure that $AD = BD$, and that D is the place of the island. In the spherical triangle APB are given AP , BP and $\angle APB$, to find $AB = 41^\circ 35' 51''$, $\angle PAB = 62^\circ 7' 6''$, and $\angle PBA = 87^\circ 49' 28''$. Produce BA to meet the equator in F , and from D let fall the perpendicular DH ; then in the right-angled triangle AEF are given EA and $\angle EAF$, to find $\angle EFA = 40^\circ 2' 57''$ and $FA = 50^\circ 59' 35''$, whence $FC = FA + AC = 71^\circ 47' 30''$, and in the right-angled triangle GCF are given CF and $\angle CFG$, to find $CG = 38^\circ 36' 23''$ and $\angle CGF = \angle DGH = 78^\circ 24' 4''$; also in the right-angled triangle DEH are given DH and $\angle DEH$, to find $DG = 18^\circ 23' 19''$, whence $CD = CG + GD = 56^\circ 59' 42''$, then in the right-angled triangle ACD are given AC and CD , to find $AD = BD = 59^\circ 23' 19''$, $\angle CAD = \angle CBD = 77^\circ 45''$, whence $\angle EAD = \angle EAC - \angle GAD = 40^\circ 52' 9''$, and $\angle QBD = \angle QBC - \angle CBD = 15^\circ 9' 47''$, and the distance $59^\circ 23' 19'' = 3563.3$ miles.



Exactly in this manner, and by the same construction and figure, is the solution given by Mr John Campbell,

The same by Mr Rob. Wilkinson, North-Shields.

Given $PM = 50^\circ$, $PL = 60^\circ$, $PT = 108^\circ$, $\angle MPL = 50^\circ$, and $TM = TL$, which if given, in each of the spheric triangles MPT and LPT are given three sides, to find the angles MPT and LPT , the sum of which must be $= 50^\circ$ the diff. of long. MPL . — Now assume $MT = TL$ any thing at pleasure, then by spherics, at a few trials, it may be approximated to the truth $= 59^\circ 23'$. Hence the angles $MPT = 13^\circ 42'$, $LPT = 36^\circ 18'$, $PMT = 166^\circ 30'$, and $PLT = 139^\circ 14'$; the supplements of which give $RMT = 13^\circ 30'$ easterly from M in lat. 40° , and $SLT = 4^\circ 46'$ westerly from L in lat. 30° , supposing the port in 40 to lie westerly from the other; also $59^\circ 23' = MT = LT = 3563$ nautical miles, the distance sought.



Ingenuous answers, besides those inserted in the Diary and Supplement, were also given by Messieurs Adams, Amicus, Apstan, Bengal Officer, Bournley, Pulmer, Burdon, Campbell, Charlton, Cook, Cox, Craggs, Dale, Dimbleby, Ferraby, Frankish, Garnett, Glendenning, Greaves, Griffith, Harley, Holt, Laws, Lawton, Leybourn, Liddell,

VIII QUESTION 931 answered by Mr John Craggs of Hilton.

The whole time of consuming the 15 inches length of the candle being 9 hours, or 540 minutes, if the times of burning the successive inches, be supposed in arithmetic progression, then $540' \div 15 = 36'$ the time the 8th or middle inch will burn. Also $20'$ being the difference of the extremes, or first and last inches, therefore $10'$ is the difference between the middle and each of the extremes, therefore $36' + 10' = 46'$ is the time of bottom inch burning, and $36' - 10' = 26'$ is the time the top inch burns, the answer near the truth, as the rate of burning in arithmetical progression is very nearly true.

The same answered by Amicus.

Let the length = 15 inches = b , c = the first velocity along b per minute, $a + b$ the length for the first velocity to be infinite, x = the decrease of b in t minutes, the velocity then = $c \times \frac{a^2}{a+x^2}$, and

$$t = \frac{x \times \overline{a+x}^2}{ca^2}, \text{ hence } t = \frac{\overline{a+x}^3 - a^3}{3ca^2}; \text{ so when } x = 1, t =$$

$$\frac{\overline{a+1}^3 - a^3}{3ca^2}, \text{ when } x = b, t = \frac{\overline{a+b}^3 - a^3}{3ca^2}, \text{ and when } x = b$$

$$- 1, t = \frac{\overline{a+b-1}^3 - a^3}{3ca^2}, \text{ which is the time for the last inch,}$$

which subtracted from the preceding value of t , gives $\frac{2a+b \times b-1}{ca^2}$

$$= 20 \text{ per question, hence } c = \frac{2a+b \times b-1}{20a^2}, \text{ but } \frac{\overline{a+b}^3 - a^3}{3ca^2}$$

$$= 540, \text{ and } c = \frac{\overline{a+b}^3 - a^3}{1620a^2} = \frac{2a+b \times b-1}{20a^2}, \text{ reduced } a^2 +$$

$$b = 54 + \frac{54}{b} \times a = 303, a = 42.52518, \text{ and } \frac{a^2 + a + \frac{1}{2}}{ca^2} =$$

$26'.4337$, the answer.

Ingenious solutions were also given by Messieurs Barnes, Pengal Officer, Bewick, Bournley, Buchanan, Bulmer, Burdon, Campbell, Carlisle, Cavill, Cowing, Cox, Cullyer, Dale, Evans, Farey, Garrett, Glendenning, Griffith, T. H., Hartley, Heslop, Holt, Kinnebrook, Lawton, Miss Mason, Mulcaster, Park, Pearson, Pritty, Roberts, Rowe, Ryley, Sampson, Skewes, Stevenson, Tarmior, Taylor, Tomlinson, Vertigo, Virgo, White, Whitehouse, Whiting, Wilkinson, Woolcott, and Yeart.

IX QUESTION 932 answered by Mr. Christ. Cox, of Dublin.

Let $a, b, c, d, e, \&c.$ be all known integers, denoting n terms of the required series; and the sum of the squares of these put

also let x and z be the two remaining terms of the series; then, by the question, $z^2 = a^2 + b^2 + c^2 + d^2 + \dots + x^2 = s + x^2$; hence, to have z rational, it is evident that $s + x^2$ must be a square; assume it $s + x^2 = (s - x)^2 = s^2 - 2sx + x^2$; hence $x = \frac{s-1}{2}$; here s is evidently an odd number; it therefore appears that $a^2 + b^2 + c^2 + d^2 + \dots$ to $n-2$ terms must be some integral squares whose sum is an odd number greater than 1, and the two remaining terms are $\frac{s-1}{2}$ and $\left(\sqrt{s^2 + \frac{s-1}{2}}\right)^2$ or $\frac{s+1}{2}$.

Ex. If n be 3, or there be three terms, the least of them must be greater than 2; if it be taken 3; then $s = 3^2 = 9$; hence $\frac{s-1}{2} = \frac{8}{2} = 4$, and $\frac{s+1}{2} = \frac{10}{2} = 5$; therefore the three may be 3, 4, 5.

If $n = 4$, or 4 terms; let the first two terms be 2, 3, the sum of whose squares is 13 = s ; thence $\frac{s-1}{2} = 6$, and $\frac{s+1}{2} = 7$, the other two terms; the four being 2, 3, 6, 7. And so on, for any number of terms.

This question was also ingeniously answered by Messieurs Amicus, Barnes, Bengal Officer, Bournley, Buchanan, Cavill, Craggs, Culyer, Cunliffe, Dalton, Haycock, Holt, Howard, Kinnebrook, Lawton, Leybourn, Liddell, Mooney, Park, Pearson, Rowe, Ryley, Sampson, Skewes, Stevenson, Taylor, Tomlinson, White, and Whiting.

X QUESTION 933 answered by Mr Alex. Rowe, of Reginnis.

A pendulum $39\frac{1}{8}$ inches long vibrates seconds, and the lengths of different pendulums are reciprocally proportional to the square of the number of their vibrations made in one and the same time; therefore as $\sqrt{39\frac{1}{8}} : \sqrt{l} :: n : n\sqrt{\frac{l}{39\frac{1}{8}}}$ the time or number of seconds in which the pendulum l performs n vibrations. Then, by Dr. Hutton's Compendious Measurer (a small book particularly useful in Schools), the velocity of sound is about 1142 feet in a second of time, or a mile in $4\frac{2}{3}$ seconds; whence as $1'' : 1142 :: n\sqrt{\frac{l}{39\frac{1}{8}}} : 1142 n\sqrt{\frac{l}{39\frac{1}{8}}} = 182\frac{1}{2} n\sqrt{l} = d$, a general rule for the distance sought in feet.

Nearly in the same manner was the solution also given by Messieurs Amicus, Barnes, Bengal Officer, Buchanan, Bulmer, Burdon, Burton, Cavill, Cock, Cox, Craggs, Culyer, Cunliffe, Dowden, Elstob, Evans, Ewbank, Garnet, Giendenning, Greaves, Griffith, T. H. Harrison, Hartley, Haycock, Hickinbotham, Holt, Kinnebrook, Lawton, Leybourn, Liddell, Miss Mason, Mooney, Mulcaster, Nichols,

Again, the fluxion of the area is $y \dot{x} = \frac{13 \pi \dot{x}}{\sqrt{3x^2 + 5x + 7}}$, the correct fluent of which is $\frac{13}{3} \sqrt{3x^2 + 5x + 7} - \frac{13}{3} \sqrt{7} + \frac{65}{6\sqrt{3}} \times b.l.$

$$\frac{\sqrt{7} + \sqrt{\frac{25}{12}}}{\sqrt{3x^2 + 5x + 7} + \sqrt{3x^2 + 5x + \frac{25}{12}}} = \frac{13}{3} \sqrt{3x^2 + 5x + 7} - \frac{13}{3} \sqrt{7} + \frac{65}{6\sqrt{3}} \times b.l. \frac{\sqrt{\frac{7}{3}} + \frac{5}{6}}{\sqrt{x^2 + \frac{5}{3}x + \frac{7}{3}} + x + \frac{5}{6}} = (\text{when } x \text{ is}$$

7.449 &c.) 19.2175, the double of which is 78.435 feet, the area of the whole section D C E of the boat.

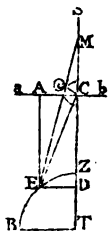
Ingenious answers were also given by Messrs Amicus, Barns, Bournley, Craggs, Culyer, Cunliffe, Dalton, Dowden, Garnett, Haycock, Howard, Rowe, Ryley, Stevenson, Taylor, Tomlinson, Vertigo, White, and Woolcott.

XIII QUESTION 936 answered by Amicus.

In Mr Flamsteed's, and other graphical methods of computing solar eclipses, the shadow is supposed to fall upon the plane of the imaginary circle bounding light and darkness; and its size is made the same as if it really fell upon such a plane; whereas it ought to be the orthographic projection on such plane of the shadow as it really is upon the surface of the earth, or of the portion of the surface covered thereby, which, being nearer the moon, must be greater than the imaginary shadow on the imaginary plane. Consequently the horizontal diameter ought to be augmented according to the altitude.

The same answered by the Proposer, Mr Geo. Sanderford.

To determine which of the diameters is to be made use of in solar eclipses, let us suppose the centres of the earth, moon, and sun to be in the same right line τs , where τ is the centre of the earth, c the moon's, s the sun's, and M the vertex of the penumbral cone, whose slant side touches the moon in the point o . Also let $B E Z$ represent a part of the earth's disk, ED the semidiameter of the penumbra, or section of the penumbral cone (which in this case is a circle); ao is the plane of projection, which in Flamsteed's method touches the moon's orbit, and is perpendicular to τs , the line connecting the centres of the earth and sun: Join $c x$, and draw EA parallel to pc meeting ab in A .



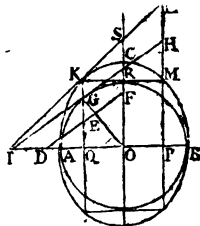
Mr Flamsteed, Mr Keill, and others, make the angle EMD equal to the apparent semidiameter of the sun, equal to $ECD - oxc = AED - oxc$; but ECD is the apparent semidiameter of the penumbra (ED) as seen from the moon; which by reason of the great distance of the sun (τs) in respect of ED and pc , is projected on the plane (ab) into a line equal to itself, which by parallel lines is

equal to AC . But the angle oxc is equal to the apparent semidiameter oc of the moon as seen from x ; which angle is manifestly equal to the apparent horizontal semidiameter augmented according to its altitude; therefore the semipenumbra ac in Flamsteed's projection, must be made equal to the angles $AEO + oxc = EMD + oxc$; or to the apparent semidiameter of the sun, plus the horizontal semidiameter of the moon augmented according to its altitude.

* Mr. Flamsteed supposes the eye to be in the centre of the sun: whence all the points on the earth's disc are orthographically projected on the plane ab .

XIV QUESTION 937, answered by Amicus, the Proposer.

From the centre o , along the transverse oc and conjugate oa , of the given ellipse, set off $of : ob ::$ side of a square : its diagonal, and with radius oa describe a circle; join bf , perpend. to which draw ox , which continue to the circle in g ; through g parallel to bf draw the tangent xi meeting the transverse in x , and conjugate produced in i ; parallel to co and through g draw the ordinate of the ellipse xq ; join ix , which produce to l till $kl = ix$; through l parallel to the transverse draw lp , and it will cut off the segment required.



For ix , which cuts the transverse produced in s , by a known property of the ellipse, is a tangent thereto at x ; and since, by constr. $FO^2 : DO^2 :: 1 : 2 :: FE : DE$, $DE = 2FE$, therefore $GI = 2GX$, and $KI = 2KS$; but, by constr. $KI = LK$, therefore $KS = SL$, and, KM being joined, $QKMP$ is a parallelogram, and because $KI = XL$, it is the greatest in the segment $rmckA$, and its double the greatest in the segment of the whole ellipse, and its length $= 2KQ$ is the greatest; because it consists of the whole chord $2MP$ bounding the elliptic segment.

Since, by constr. $2OQ = IQ$, and $GO^2 = AO^2 = QO \cdot IO = 3QO^2$, $QO = AO \sqrt{\frac{1}{3}}$, $GQ = AO \sqrt{\frac{2}{3}}$, and $KQ = CO \sqrt{\frac{2}{3}}$: now the length of the greatest parallelogram that can be inscribed in the whole ellipse is known to be $= CO \sqrt{2}$, and $CO \sqrt{2} : 2KQ :: \sqrt{3} : 2$.

True answers were also given by Messrs. Barnes, Culyer, Garnett, Howard, Kinnebrook, Leybourn, Mooney, Pritty, Ryley, Vertigo, White, and Woolcott.

XV or PRIZE QUESTION 938 answered by Lieut. Mudge.

Let AB be the surface of the water, and CDE the cylinder. Put $n =$ the specific gravity of oak, that of water being 1, $a = .7854$, $2g = 32 \frac{1}{2}$ the force of gravity, $x = CD$ any space ascended at any time t , and v the velocity.

Then $ad^2b - x$ is the weight of water displaced, or force of the water acting against the oak, and $ad^2nb =$ weight of the cylinder, or force of the oak against the water; therefore $ad^2 \times b - n - nb$



or $ad^2 \times mb - x$ is the motive force urging the cylinder upwards, putting $m = 1 - n$; and consequently, dividing by $ad^2 nb$ the matter moved, gives $\frac{mb - x}{nb} = f$ the accelerative force. Hence, by forces

(see Dr. Hutton's Conic Sect. and Select Exercises, theor. 10, pa. 169),

$$v\dot{v} = 2gf\dot{x} = \frac{2g}{nb} \times mb\dot{x} - x\dot{x}, \text{ the fluents of which give } v^2 = \frac{2g}{bn}$$

$$\times 2mbx - x^2, \text{ and when } x = p, \text{ we have } v = \sqrt{\frac{2g}{bn} \times 2bmp - p^2}$$

the velocity required.

Also for the time, by theor. 11 of the above, $t = \frac{x}{v} =$

$$\frac{\dot{x}}{\sqrt{\frac{2g}{bn} \times 2bmx - x^2}}, \text{ the fluents of which (by form. 10, pa. 171 as}$$

above) are $t = \sqrt{\frac{2bn}{g}} \times A$ or the arc whose versed sine is $\frac{x}{2bm}$ and diameter 1; which gives the time required.

Thus far the solution, as required by the question; but it may not be improper to make a few observations on this problem.

OBSERV. 1. When $v = 0$, then $x = 2bm$, the greatest length that can rise out of the water. And when v is a max. by making the flux. of the value of $v = 0$, there results $x = bm$ for the height risen when the velocity is the greatest; and which therefore is just half the whole height to which the cylinder will rise before it stops.

OBSERV. 2. When the cylinder is in the act of sinking, after $x = 2bm$; the same notation remaining, and v denoting now the descending velocity, v being $= 0$ when $x = 2bm$, the correction vanishes, and

then $v^2 = \frac{2g}{bn} \times 2bmx - x^2$ the same expression as before, and the

cylinder will sink just to its first position, or till its upper end be level with the surface of the water. It therefore appears that the cylinder will continue to leap up and fall down, if tenacity, friction, or some such force did not take place between the surface of the cylinder and the water. But as experience shews there is such a force, we must have recourse to experiment for the true solution in this case.

Let then s denote the sum of the friction, attraction, &c. upon the whole surface; then will $\frac{b-x}{b}s$ be that upon the part $b-x$ im-

mersed, and hence $u^2 = \frac{2g}{bn} \times 2bmx - x^2 + \frac{2gs}{ad^2 b^2 n} \cdot 2bx - x^2$.

Therefore, by observing the height ascended out of the water when

$v = 0$, as b for instance, we get $s = ad^2 b \cdot \frac{2bm - b}{2b - b}$; then substi-

tuting this value of s in the original equation, we have the true velocity as well as time required.

True answers were also given by Messieurs Amicus, Holt, Howard, Lawton, Sampson, Tomlinson, White, and Woolcott, besides those inserted in the Supplement.

NEW QUESTIONS.

I QUESTION 939, by Mr J. Holt, of Manchester.

What two numbers are those, whose sum, quotient, and difference of their squares, are all equal to each other.

II QUESTION 940, by Mr J. Hornby, Wetherdale-School.

Surveying a four-sided field, in latitude $54^{\circ} 30'$ north, April 20th, 1791, at half past five, afternoon, a tree at the corner A, 66 feet high, casts a shadow just the length of the side AB, and the other sides measured as follows, viz. $BC = 506$ links, $CD = 364$, and $AD = 276$; also the angle A a right-angle: required the area.

N. B. The above is a real case, which actually happened in surveying the aforesaid field.

III QUESTION 941, by Mr Rob. Wilkinson, North-Shields.

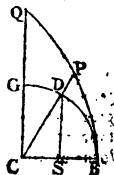
Being in a garden on the 1st of April, 1791, in 55° north lat. in which was a grass plat truly horizontal, and on which at some distance from me stood an empty cylindrical vessel. Having a cane in my hand, I set it up perpendicularly, exactly between the sun and the vessel, and found its shadow reached exactly to the bottom of the vessel on the outside next to me; but going 14.632 feet nearer, I observed that the shadow of the cane's top, after exactly touching the top or upper edge of the vessel, struck the opposite inside $10\frac{1}{4}$ inches from the top. The time was 4 hrs. 57 min. afternoon: Quere the length of the cane, my distance from the vessel at first, and its content in ale gallons.

IV QUESTION 942, by Fidelio.

Otaheite is an island in the South Seas, lat. $17^{\circ} 45'$; now supposing the earth to be an oblate spheroid, the equatorial diameter being 7974 miles, and polar diameter 7940, and that a person is at the equator, at the point nearest to Otaheite, required how high above the earth's surface he must be raised to see the said island.

V QUESTION 943, by Mr A. Buchanan, Sedgefield.

If in the quadrant of a given circle, CBG, whose centre is C, there be drawn any radius CD, and produced to P, so that DP be always = the corresponding versed sine BS; it is required to find the nature, area, &c. of the curve BPQ, described by the point P.



VI QUESTION 944, by Mr John Gullyer, Wicklowood.

There are two men A and B; A can reach, when his arms are properly extended in raising a ladder, seven feet from the place on the ground where he stands, and B can in like manner reach six feet; but B's strength is to that of A as 6 to 5; quere which of these men can raise a ladder with the most ease to himself, and what is the greatest weight each may well have to sustain, supposing the ladder 30 feet long, its weight 60lb. and the centre of gravity 12 feet from its lowest end.

VII QUESTION 945, by Mr Da. Kinnebrook, jun.

Given the diameter AB of a circle, and the distance AP in the diameter produced; to draw a right line PDE, to cut the circle in the points D and E, so that the difference between EG and DR, the sines of the arcs BE and AD, may be a maximum.



VIII QUESTION 946, by Lieut. Wm. Dixon, Royal Artillery.

To determine how far a man, who pushes with a force of 100lb. can introduce a sponge into a piece of ordnance whose diameter is five inches, and length 10 feet, when the barometer stands at 30 inches: the vent, or touch-hole, being stopped, and the sponge having no windage, that is fitting the bore quite close.

IX QUESTION 947, by the Rev. Mr. J. Ewbank, of Thornton-Steward.

A man wants to travel from A unto D,
And, before he gets there, cross the river BC.
On the side mark'd with D, can walk three
miles per hour;

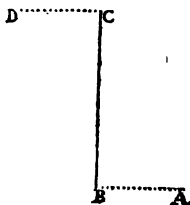
But on that mark'd with A, 'tis quite out
of his pow'r;

Only two he can go, and he begs Lady Di
Will the question insert, that her artists may
try,

If they can direct, where the fame must be
cross,

In his journey to D, that no time may be lost.

The perp. AB being seven miles, the perp. DC = 5 miles, and
AC = 20 miles.



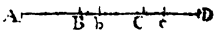
X QUESTION 948, by Mr S. Woolcott, South-Molton.

If tangents drawn to a circle, meeting the diameter produced, be divided in the given ratio of m to n , and at the points of division if perpendiculars be erected, and intersect the ordinates of the circle, produced when necessary, drawn to the points of contact of the said tangents; to determine the species, &c, of the curve, which is the locus of these intersections.

XI QUESTION 949, by Jack Westerm.

The Rev. Mr. Hellins, in his *Mathematical Essays*, page 107, from the equation $x = \sqrt{ax + xx}$, where x and a begin together, derives $x = \frac{1}{2}xx + \frac{1}{2}aa . b . l . x , + \frac{a^4}{2 \cdot 4 \cdot 2 \cdot x^2} - \frac{3a^6}{2 \cdot 4 \cdot 6 \cdot 4 \cdot x^4} + \frac{3 \cdot 5 a^8}{2 \cdot 4 \cdot 6 \cdot 8 \cdot 6 \cdot x^6}$ &c. + d , where d is a constant quantity which he has shewn how to determine: it is proposed therefore to compute the value of x by this series, when $d = 0$, and $x = 100$.

XII QUESTION 950, by Mr John Maseres.

It is required to divide the given line AB into three such parts AB , BC , CD ,  that the sum of the three rectangles under these parts viz. under $AB \cdot BC$, and $AB \cdot CD$, and $BC \cdot CD$, shall be a maximum, or greater than if the same line be divided into any other three parts, Ab , bc , cd .

XIII QUESTION 951, by Mr. Geo. Sanderfon.

To determine on which day of the year 1792, the time between noon and sunset will be the greatest possible at Petersburg, lat. $59^{\circ} 56'$ north.

XIV QUESTION 952, by Lieut. Wm. Mudge.

A cylindrical vessel, full of water, having its axis perpendicular to the horizon, is whirled about its axis with such a velocity, that its circumference passes through 40 feet per second of time; it is required to determine how much water will run over; the diameter of the cylinder being two feet, and its depth four feet.

XV or PRIZE QUESTION 953, by Amicus.

To how many terms, past the first, must the series of squares whose roots are 1, 2, 3, 4, 5, 6, &c. be carried, so that the sum of them all may be a square number; and is there more than one such square number?

* * * The Prizes for the several solutions have been determined by lot as follows: First, for the Prize Question, to Mr Da. Kinn brook, jun. 10, and Mr Geo. Barnes, 8 Diaries.—2d, for the Prize Enigma, to Mr Tho. Woolston and Miss Susana Browne, each 8 Diaries.—3d, for the general Answers to the Enigmas, to the Rev. Mr. T Baker and Mr Jonathan Hornby, each 8 Diaries.—4th, for Refuses, Queries, &c. to Mr Gen Corwen and Mr Henry Mellarby, each 6 Diaries. All of whom will please to send for them to Stationers-Hall.

But the letters for the use of the Diary to be directed thus, "The Author of the Ladies' Diary, Stationers-Hall, London." And they must be franked or post-paid, or they will not be received; and the last of them must be sent before the first of May, but those for the Solution of the Prize Enigma and Prize Question before Candlemas Day. And along with all new Enigmas, Refuses, Charades, and Questions, must be sent their solutions.

F I N I S.

VOX STELLARUM:
OR, A LOYAL
ALMANACK

For the Year of HUMAN REDEMPTION

M,DCC,XCII.

Being **BISSEXTILE**, or **LEAP-YEAR**.

In which are contained

All Things fitting for such a **WORK**; as,

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The Full, Changes, and Quarters of the **MOON**;
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and other Fixed Stars of Note; the **MOON's** Age, and

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An **HIEROGLYPHIC**, alluding to these present Times;

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And other MATTERS, both curious and useful.

With farther Observations on the Barometer or Weather-glass,
and on the new-discovered Planets.

By **FRANCIS MOORE**, Physician.

L O N D O N.

Printed for the **COMPANY of STATIONERS**, 1792.
And Sold by **ROBERT HORSFIELD**, at their Hall
in **LUDGATE STREET**, [Price Ten Pence, stitched.]

What is this blind and unseen Creature, Fate?
 What sways our Will, what doth predestinate?
 What are the Laws of Nature, what of Sense?
 What is Free-will, and what is Providence?
 How came I thus to be compleatly free
 To every Thing but what I ought to be?

M	W	Fasts and	☉	D's	D's	D rises	Mutual Asp.
D	D	Festivals.	by	Signs	Δ	and sets	and Weather
1	A	1 S. aft. Christ.	11	head	7	morn.	Circumcis.
2	M	Day b. 5 59	12	face	8	1 4	Cloudy, Job
3	Tu	Tw. ends 6 3	13	neck	9	2 7	☐ ☉ ♀
4	W		14	throat	10	3 9	scure air,
5	Th	Old Christm-d.	15	arms	11	4 7	begins the
6	F	Epiph. or Tw. D.	16	and	12	5 4	new year;
7	S	Day 8 o long	17	should.	13	5 55	* ♂ ♀
8	A	1 S. aft. Epiph.	18	breast	14	6 42	Lucian.
9	M	Plow Monday.	19	stom.	F	rises	fleets or
10	Tu	Night 15 56 l.	20	heart	16	5 a 46	showers..
11	W	Δ ris. 1 8 morn.	21	and	17	6 49	The weather
12	Th	O. N. Y. day.	22	back	18	7 52	variable, and
13	F	Camb. Ter. beg.	23	bowels	19	8 59	St. Hilary.
14	S	Oxf. Term. beg.	24	belly	20	10 6	inclined to
15	A	2 S. aft. Epiph.	25	reins	21	11 16	moisture.
16	M	♀ rises 4 22 m.	26	loins	22	morn.	☐ Δ ♀
17	Tu	O. Twelfth-day	27	secret	23	0 29	♂ ☉ ♂
18	W	Queen's b. d. K.	28	memb.	24	1 42	Prisca.
19	Th	Δ sou. 5 44 m.	29	hips	25	2 54	Δ ♀ ♀
20	F	Fabian.	30	thighs	26	4 5	☐ ☉ Δ
21	S	Agnes.	1	knees	27	5 10	Frosty with
22	A	3 S. aft. Epiph.	2	hams	28	sets	Vincent.
23	M	Hilary T. beg.	3	legs	N	4 a 32	snow, and a
24	Tu	♀ sou. 8 47 m.	4	and	1	5 47	mutable air.
25	W	Conv. St. Paul.	5	ankles	2	7 3	More tem-
26	Th	Day b. 5 37	6	feet	3	8 18	perate, and a
27	F	Pr. Aug. Fr. b.	7	toes	4	9 29	remission of
28	S	Tw. ends 6 25	8	head	5	10 38	cold.
29	A	4 S. aft. Epiph.	9	face	6	11 44	Winds, with
30	M	K. Ch. I. mar.	10	neck	7	morn.	frost, cloudy,
31	Tu	Day 9 2 long	11	and	8	0 50	rain, or snow.

The 15 day, at 6 morn. Mars
 The 17 day, at 9 morn. Jupiter
 The 20 day, at 11 morn. Venus
 The 22 day, at 12 night, Mercury
 The 28 day, at 7 night, Saturn

is with
 the Moon.

M D	Sun rises	Sun sets	Moon South.
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Monthly Observations.

A	8	5	3	55	6	a	18
2	8	4	3	56	7		3
3	8	4	3	56	7		48
4	8	3	3	57	8		33
5	8	2	3	58	9		19
6	8	1	3	59	10		5
7	8	0	4	0	10		52
A	8	0	4	0	11		39
9	7	59	4	1	morn.		
10	7	58	4	2	0		26
11	7	57	4	3	1		13
12	7	56	4	4	1		59
13	7	54	4	6	2		45
14	7	53	4	7	3		31
A	7	52	4	8	4		17
16	7	51	4	9	5		4
17	7	50	4	10	5		54
18	7	48	4	12	6		47
19	7	47	4	13	7		42
20	7	46	4	14	8		40
21	7	44	4	16	9		41
A	7	42	4	17	10		42
23	7	41	4	19	11		42
24	7	40	4	20	0	a	40
25	7	38	4	22	1		34
26	7	37	4	23	2		26
27	7	35	4	25	3		15
28	7	34	4	26	4		2
A	7	32	4	28	4		48
30	7	31	4	29	5		34
31	7	29	4	31	6		20

FIRST Quart. 1 day, at 4 morn.

Rain fell in January, 1790, was
0.967 Inches.Rain or Snow (more or less) may be
expected about the 3, 14, 18, and 31
Days of this Month; the Day before
or Day after; that is, within the Tri-
duum.

FULL Moon 9 day, at 9 morn.

My Readers are presented at the
 Top of each Month, with the Depth
 of Rain fallen at LONDON, in Inches
 and Decimal Parts of an Inch, and is
 what the Water would have risen to,
 had it stagnated on an even Surface
 upon the Earth, and had not been im-
 LAST Quart. 17 day, at 1 morn.

bited thereby, or lessened by Exhala-
 tions. The Measurement was taken
 with proper Instruments, that were
 well adapted for the purpose. Now the
 whole Height which the Water would

NEW Moon 23 day, at 5 morn.
 have risen at London from the 1st of
 January, 1790, to the 1st of January,
 1791, I find to be only 16 Inches
 (which the Year before was near 22
 Inches); but at Royston the Quantity

FIRST Quart. 1 day, at 4 morn.

What is this Fate? where doth it dwell or grow?
 I've felt it oft, and so have you, I know.
 'Tis something if 'tis felt, 'tis bad or good,
 But by its Name there's little understood;
 'Tis more indeed than Name, in each Man's Lot;
 Is it a Creature, 'think ye? or, is't not?

M	W	Fasts and Festivals.	☉	S's Signs	D's A	D rises and sets	Mutual Asp. and Weather
1	W	Day br. 5 30	12	throat	9	1 m 51	Brisk winds;
2	Th	Purif. or Can. d.	13	arms	10	2 46	but moderate
3	F	Blase.	14	should.	11	3 41	* 2 ♀
4	S	Tw. ends 6 34	15	breast	12	4 30	weather.
5	▲	Septuages. S.	16	and	13	5 14	Agatha.
6	M	Day 9 22 long.	18	stom.	14	5 44	□ 8 ♀
7	Tu	Night 14 34 l.	19	heart	F	6 27	Some snow
8	W	2 rises 11 21 a.	20	back	16	rises	or rain about
9	Th	♀ rises 8 43 a.	21	bowels	17	6 a 43	the full
10	F	2 fou. 4 19 m.	22	belly	18	7 52	moon.
11	S	2 fou. 2 42 m.	23	reins	19	9 1	Frosty and
12	▲	Sexagesima S.	24	and	20	10 13	more serene
13	M	Hil. Term ends.	25	loins	21	11 26	O. Candl. D.
14	Tu	Valentins.	26	secret	22	morn	and clear.
15	W	Day br. at 5 8	27	memb.	23	0 39	□ 6 ♀, □ 24 ♀
16	Th	Tw. ends 6 54	28	hips	24	1 48	Blustering
17	F	Day 10 4 long	29	thighs	25	2 54	winds, with
18	S	Night 12 52 l.	30	knees	26	3 54	Δ 8 ♀
19	▲	Shrove Sund.	1	hams	27	4 47	snow or cold
20	M	Camb. T. div. m.	2	legs	28	5 30	rain, and
21	Tu	Shrove T. eisd.	3	ankles	29	6 7	winterly
22	W	Ash Weda eisd.	4	feet	N	sets	weather.
23	Th	2 rises 10 24 a.	5	toes	1	7 a 5	Now more
24	F	St. Matthias. Pr. Ad. Fr. b.	6		2	8 17	moderate
25	S	2 rises 5 6 m.	7	head	3	9 26	and serene
26	▲	Qua. 1 S. Lent.	8	neck	4	10 33	with frosts.
27	M	2 fou. 3 15 m.	9	and	5	11 38	* 5 ♀
28	Tu	2 fou. 0 23 m.	10	throat	6	morn	
29	W	Ember Week	11	arins	7	0 36	□ 24 ♀, Δ 8 ♀

JUPITER will be a Morning Star till April 15; then an Evening Star till Nov. 3; after that a Morning Star to the End.

MOORE. FEBRUARY, 1792. 5

The 11 day, at 4 aftern. Mars
 The 13 day, at 4 aftern. Jupiter
 The 18 day, at 12 night, Venus
 The 20 day, at 9 morn. Mercury
 The 25 day, at 9 morn. Saturn

is with
 the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	7 27	4 33	7 2 6	<i>Rain fell in February 1789, was 0, 11, 12 Inches.</i>
2	7 25	4 35	8 53	
3	7 24	4 36	9 40	Rain or Snow (more or less) may be expected about the 7, 12, 16, and 22 Days of this Month; the Day before or Day after.
4	7 22	4 38	9 27	
A 7	20	4 40	10 15	was 21 Inches; hence more Rain.
6	7 19	4 41	11 2	
7	7 17	4 43	11 49	FULL Moon 8 day, at 3 morn.
8	7 15	4 45	morn.	
9	7 13	4 47	0 36	during the Year 1790, fell at Royfton than at London by 5 Inches, which, at the Distance of but 38 Miles, is ra- ther extraordinary; but by good and proper Observations, we find it has so happened.
10	7 11	4 49	1 23	
11	7 9	4 51	2 10	LAST Quart. 15 day, at 12 noon.
A 7	8	4 52	2 58	
13	7 6	4 54	3 47	UNDER the Depth of Rain fallen at London, given at the Top of each Month, I have pointed out, as usual, the different Days in each Month of the present Year, wherein may be ex- pected Rain or Snow, &c. more or less in Quantity, within the Triduum, or Compass of three Days. These Meteorological Predictions are deduced from Astrological and Philosophical Rules and Calculations, and are sub-
14	7 4	4 56	4 39	
15	7 2	4 58	5 32	NEW Moon 22 day, at 5 morn.
16	7 0	5 0	6 28	
17	6 58	5 2	7 26	FIRST Quart. 29 day, at 7 night.
18	6 56	5 4	8 25	
A 6	54	5 6	9 24	VENUS will be a Morning Star till August the 6th; and after that Time she will be an Evening Star to the Year's End.
20	6 52	5 8	10 22	
21	6 51	5 9	11 17	
22	6 49	5 11	0 11	
23	6 47	5 13	1 2	
24	6 45	5 15	1 51	
25	6 43	5 17	2 39	
A 6	41	5 19	3 27	
27	6 39	5 21	4 14	
28	6 37	5 23	5 1	
29	6 35	5 25	5 48	

6 MARCH XXXI Days.

Fate is an Agent with first Causes made,
By Springs from Heaven moves, and is obey'd;
It finds a Way to enter with the Breath,
And crowds its Force into all Things on Earth;
'Tis good or bad, one of which never fail;
Hence the Good suffer, when the Ill prevail.

M	W	Notes and	☉	☾	D's	D rises	Notes and
D	D	Feats	☉	☾	A	and sets	Notes and
1	Th	David	12	should.	8	1 m 33	Some cold.
2	F	Chad	13	breast	9	2 24	winds begin
3	S	Day br. 4 39	14	and	10	3 10	the month.
4	S	S. in Lent.	15	stom	11	3 52	An obscure
5	M	Tw. ends 7 26	16	heart	12	4 29	and gloomy
6	Tu	Day 11 14 long.	17	back	13	5 0	state of air,
7	W	Perpetua	18	bow.	14	5 30	Δ 24 ♀
8	Th	Night 12 38 l.	19	and	F	rises	perhaps hazy
9	F	☿ rises 9 22 a.	20	belly	16	6 a 53	storms of
10	S	♀ rises 5 2 m.	21	reins	17	8 6	rain or fleet.
11	G	S. in Lent.	22	loins	18	9 19	More tem-
12	M	Gregory.	23	secret	19	10 32	perate and
13	Tu	☿ fou. 2 20 m.	24	memb	20	11 44	remission of
14	W	♀ fou. 9 40 m	25	hips	21	morn.	* 6 ♀
15	Th	Day br. 4 23	26	thighs.	22	0 53	cold, bat.
16	F		27	knees	23	1 54	8 ☉ ♂ soon
17	S	St. Patrick.	28	hams	24	2 44	changes to
18	G	S. in Lent.	29	legs	25	3 34	Ed. K. W. S.
19	M	Tw. ends 7 56.	☿	anles	26	4 12	cold and
20	Tu	Day 12 10 long	1	feet	27	4 45	8 ♂ ♀
21	W	Bened. Oecl. in.	2	and	28	5 15	tempestuous
22	Th	Night 11 42 l.	3	toes	N	sets	and cloudy
23	F	☿ rises 8 24 aft.	4	head	1	7 a 14	air; yet 1
24	S	♀ rises 4 51 aft.	5	face	2	8 22	Δ 24 ♀
25	G	Sun. Lady D.	6	neck	3	9 28	hope a sea-
26	M	☿ fou. 1 28 m.	7	throat	4	10 31	sonable and
27	Tu	♀ fou. 9 56 m.	8	arms	5	11 30	8 ☉ ♀ dry
28	W	Day br. 3 34	9	and	6	morn.	March, for
29	Th	Tw. ends 8 21	10	should.	7	0 23	the industri-
30	F	Cam. T. ends	10	breast	8	1 11	ous farmer's
31	S	Oxf. T. ends	11	stom.	9	1 54	seed time.

The 9 day, at 12 noon, Mars

The 11 day, at 8 aftern. Jupiter

The 19 day, at 10 night, Venus

The 22 day, at 9 morn. Mercury

The 24 day, at 1 morn. Saturn

is with
the Moon.

M D	Sun Rises	Sun Sets	Moon South.
1	6 33	5 27	6 2 35
2	6 31	5 29	7 22
3	6 29	5 31	8 10
G 4	6 27	5 33	8 58
5	6 25	5 35	9 45
6	6 23	5 37	10 33
7	6 21	5 39	11 21
8	6 19	5 41	morn.
9	6 17	5 43	0 9
10	6 15	5 45	0 58
G 11	6 13	5 47	1 48
12	6 11	5 49	2 40
13	6 9	5 51	3 34
14	6 7	5 53	4 29
15	6 5	5 55	5 26
16	6 3	5 57	6 24
17	6 1	5 59	7 22
G 18	5 59	6 1	8 19
19	5 57	6 3	9 14
20	5 55	6 5	10 7
21	5 53	6 7	10 58
22	5 51	6 9	11 47
23	5 49	6 11	0 2 37
24	5 47	6 13	1 24
G 25	5 45	6 15	2 12
26	5 43	6 17	3 0
27	5 41	6 19	3 48
28	5 39	6 21	4 35
29	5 37	6 23	5 22
30	5 36	6 24	6 10
31	5 34	6 26	6 58

Monthly Observations.

Rain fell in March; 1790, was 0,122
Inches.

Rain or Snow (more or less) may
be expected about the 13, 17, 23, and
27 Days of this Month; the Day be-
fore or Day after.

FULL Moon 8 day, at 7 aft.

mitted to the curious in these Specu-
lations, for their Amusement and Ob-
servation. But then it is to be observed,
that we do not expect every one of
these Predictions to prove true; we
expect Failures, and Failures there will

LAST Quart. 15 day, at 7 aft.

be, owing to the want of more and
better Observations, and to other oc-
cult Causes, at present unknown to
us, that affect the Air, Winds, and
Weather; but of these Particulars we
shall treat hereafter, and from Year
to Year, for the Purpose of being use-

NEW Moon 22 day, at 6 aft.

ful to the Grazier, Farmer, and Hus-
bandman. Therefore this Almanack
will always be a suitable Companion
for every one who is in Possession of a
good Barometer, or Weather-glass;
as the one will be a check upon the
other, and tend to improve a proper

FIRST Quart. 30 day, at 2 aft.

Judgement of its Use; for, as a sensible

8. APRIL XXX Days.

If this is Fate, then it serves God's Decrees,
 And brings to us what he before foresees :
 It drives, and yet is driven by a Power,
 That stops not till it meets th' appointed Hour ;
 If so, 'tis plain, it doth Heaven's Laws dispense ;
 If this be true, then what is Providence ?

M D	W D	Fasts and Festivals.	☉ °	☾ ° Signs	D's A	D rises and sets	Mutual Asp. and Weather.
1	G	6 cr Palm Su.	12	heart	10	2 m 32	Cold winds,
2	M	Day br. 3 30	13	and	11	3 6	♂ ♀
3	Tu	Rich. Bp. Cbich.	14	back	12	3 37	and stormy
4	W	St. Ambrose.	15	bow.	13	4 5	weather.
5	Th	Maunday Thurs.	16	belly	14	4 31	Old Lady-D.
6	F	Good Friday.	17	reins	15	4 58	8 ♀ Fly-
7	S	Tw. ends 8 43	18	loins	F	rises	ing clouds,
8	G	Easter day.	19	secret	17	8 a 24	8 ♂ ♀ with
9	M	Easter Mon.	20	memb.	18	9 34	rain or fleet.
10	Tu	Easter Tuesd.	21	hips	19	10 51	Some cold
11	W	Day 13 36 long	22	thighs	20	11 56	♂ ☉ ♀
12	Th	Night 10 20 l.	23	knees	21	morn.	mornings,
13	F	4 rises 6 54 a.	24	hams	22	0 53	and often
14	S	8 rises 4 26 m.	25	legs	23	1 43	cloudy air.
15	G	Low Sunday	26	and	24	2 23	8 ☉ ♀
16	M	4 so. 11 57 a.	27	ankles	25	2 56	♂ ♂ ♀
17	Tu	8 sou. 10 15 m.	28	feet	26	3 26	Good spring-
18	W	Ox. & C.T. beg.	29	toes	27	3 53	ing and sea-
19	Th	Alphege	8	head	28	4 19	sonable wea-
20	F	Day br. 2 44	1	face	29	4 47	ther.
21	S	Tw. ends 9 19	2	neck	N	sets	
22	G	2 S. aft. Easter	3	and	1	8 a 25	Winds, with
23	M	St. George.	4	throat	2	9 25	flying clouds
24	Tu	Day 14 24 long	5	arms	3	10 22	changeable,
25	W	St. Mark. Pra. Mary born.	6		4	11 13	and a cloudy
26	Th	[Term beg.	7	breast	5	11 58	air, with
27	F	Night 9 28 long	8	and	6	morn.	some show-
28	S	4 rises 5 46 a.	9	stom.	7	0 37	ers in some
29	G	3 S. aft. Easter.	10	heart	8	1 12	places.
30	M	8 rises 3 55 m.	11	back	9	1 43	

The 5 day, at 5 morn. Mars
 The 7 day, at 12 night, Jupiter
 The 18 day, at 9 night, Venus
 The 20 day at 3 aftern. Saturn
 The 23 day, at 2 morn. Mercury

} is with
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
G	5 32	6 28	7 a 45	<i>Rain fell in April, 1790, was 0,1470 Inches.</i>
2	5 30	6 30	8 32	Rain or Sleet (more or less) may be expected about the 3, 8, 11, and 21 Days of this Month; the Day before or Day after.
3	5 28	6 32	9 19	
4	5 26	6 34	10 7	
5	5 24	6 36	10 56	
6	5 22	6 38	11 46	
7	5 20	6 40	morn.	FULL Moon 7 day, at 7 morn.
G	5 18	6 42	0 39	and late Writer on Agriculture well
9	5 16	6 44	1 33	observes, that a Farmer without a BA-
10	5 14	6 46	2 30	ROMETER in Hay-time and Harvett,
11	5 12	6 48	3 28	is like a Sailor going to Sea without a
12	5 10	6 50	4 27	Compass. Several Causes may, and
13	5 8	6 52	5 26	do produce a local Variety of Weather,
14	5 6	6 54	6 23	LAST Quart. 14 day, at 1 morn.
G	5 5	6 55	7 18	as Rarefaction and Condensation of the
16	5 3	6 57	8 10	Air; from the Heat and Cold of the
17	5 1	6 59	9 1	Earth, and its Vicinity, including in-
18	4 59	7 1	9 50	sensible Exhalations; low and lofty Si-
19	4 57	7 3	10 38	tuations; Places in the Neighbourhood
20	4 55	7 5	11 25	of Mountains; near Rivers and Lakes;
21	4 53	7 7	0 a 12	NEW Moon 21 day, at 8 morn.
G	4 51	7 9	1 0	also those within 20 Miles of the Sea-
23	4 50	7 10	1 47	coast, and chiefly if such Coast be Part
24	4 48	7 12	2 35	of an Island. In Places situated within
25	4 46	7 14	3 23	20 Miles of the Sea, the Sea Breeze
26	4 44	7 16	4 10	sets in; and electric Showers of Rain
27	4 42	7 18	4 57	begin to fall, particularly in Spring and
28	4 40	7 20	5 44	Autumn, at the Time of half Flood
G	4 39	7 21	6 31	FIRST Quart. 29 day, at 10 morn.
30	4 37	7 23	7 17	Tide; the Moon's Tide of Air being later than her Tide of the Ocean. The

This Providence, I doubt, we take amiss,
 The Word at first looks greater than it is:
 For Austin makes (tho' by a different Name)
 Prudence and Providence almost the same.
 If Providence is *ante video*, then
 It is a Virtue lodg'd in prudent Men.

M	W	Fasts and Festivals.	☉	D's Signs	D's	D rises and sets	Mutual Asp. and Weather
D	D		h		h		
1	Tu	St. Ph. and St. Ja.		bow.	10	2 m 12	Rather cold,
2	W	Day br. 2 3	13	belly	11	2 38	8 h 4 with
3	Th	<i>Inv. of Crois</i>	14	reins	12	3 5	wind & rain.
4	F	Tw. ends 10 0	15	and	13	3 32	Winds clear-
5	S	Day 15 4 long	16	loins	14	4 0	ing the air,
6	G	4 S. aft. Easter	17	secret	F	rises.	<i>J.E. A.P.L.</i>
7	M	Night 8 50 long	18	memb.	16	8 a 38	8 4 ♀
8	Tu	4 sets 3 48 m.	19	hips	17	9 48	changeable
9	W	♀ rises 3 43 m.	19	thighs	18	10 51	♂ h ♀ and
10	Th	4 fou. 10 16 a.	20	knees	19	11 43	showery, if
11	F	♀ fou. 10 32 m.	21	hams	20	morn.	not storma
12	S	Old May-day.	22	legs	21	0 27	of hail.
13	G	5 or Rog. Sum.	23	ankles	22	1 4	
14	M	Day br. 1 14	24	feet	23	1 34	Now we may
15	Tu	Tw. ends 10 57	25	toes	24	2 1	♂ ☉ ♀
16	W	Day 15 39 long	26	head	25	2 28	expect good
17	Th	Holy Thurs.	27	face	26	2 55	and pleasant
18	F	Night 8 16 long	28	neck	27	3 20	weather,
19	S	Q. Cle. h.	29	and	28	3 48	<i>Dunstan.</i>
20	C	8 aft. Ascen.	11	throat	N	sets	with some
21	M	Easter Term ends	1	arms.	1	8 a 16	misty morn-
22	Tu	Prs. Eliz. b.	2	should.	2	9 9	ings, but
23	W	4 sets 2 49 m.	3	breast.	3	9 57	fair days.
24	Th	Oxford T. ends	4	and	4	10 38	Δ ♂ ♀
25	F	♀ rises 3 17 m.	5	stom.	5	11 14	
26	S	<i>Augustin, Abp.</i>	6	heart	6	11 47	Fine and
27	G	Whit. Sund.	Cam. T. div		7	morn.	<i>Ven. Bede,</i>
28	M	Whit Mond.	8	bow.	8	0 14	pleasant
29	Tu	Whit Tu. K. C. H. res.			9	0 40	weather to
30	W	Ember Week	10	and	10	1 5	the end.
31	Th	4 fou. 8 47 aft.	11	reins	11	1 22	Δ ♂ ♀

The 2 day, at 8 morn. Mars
The 5 day, at 4 morn. Jupiter
The 18 day, at 4 morn. Saturn
The 19 day, at 1 morn. Venus
The 20 day, at 5 morn. Mercury
The 30 day, at 4 morn. Mars

is with
the Moon.

M D	Sun rises	Sun- sets	Moon South.	Monthly Observations.
1	4 35	7 25	8 a 3	<i>Rain fell in May, 1790, was 2,898 Inches.</i>
2	4 34	7 26	8 51	
3	4 32	7 28	9 40	Rain (more or less) may be expected about the 2, 10, 15, and 26 Days of this Month; the Day before or Day
4	4 30	7 30	10 31	
5	4 28	7 32	11 24	FULL Moon 6 day, at 5 aft.
G 4	27	7 33	morn.	
7	4 25	7 35	0 21	Moon, by her nearness to the Earth, exerts an Influence over it, nearly five Times greater than that of the Sun.
8	4 23	7 37	1 20	
9	4 22	7 38	2 20	Also, the Tranquillity and Motion of the Air, both in Degree and Direction,
10	4 20	7 40	3 21	
11	4 19	7 41	4 20	LAST Quart. 13 day, at 8 morn.
12	4 17	7 43	5 17	
G 4	16	7 44	6 11	should likewise be considered, as pro- ducing a local Accumulation or Dimi- nution of the Atmosphere; which though not visible to the Eye, is now happily known, by Means of a BARO- METER; generally some Hours, and
14	4 14	7 46	7 2	
15	4 13	7 47	7 51	NEW Moon 20 day, at 10 night.
16	4 11	7 49	8 38	
17	4 10	7 50	9 25	sometimes a Day or more, before their Effects take Place in a Change of Wea- ther. In the Columns where the Wea- ther is given, we do not mean in particular, that it is to be exactly on the Day or Days just opposite to where the Words stand, though it often will :
18	4 8	7 52	10 11	
19	4 7	7 53	10 57	but only that such Weather is expected about that Time; which sometimes
G 4	6	7 54	11 44	
21	4 4	7 56	0 a 31	FIRST Quart. 29 day, at 2 morn.
22	4 3	7 57	1 19	
23	4 2	7 58	2 7	may fall out three or four Days sooner
24	4 0	8 0	2 54	
25	3 59	8 1	3 40	
26	3 58	8 2	4 26	
G 3	57	8 3	5 11	
28	3 56	8 4	5 56	
29	3 55	8 5	6 42	
30	3 54	8 6	7 29	
31	3 53	8 7	8 17	

With an unwearied Hand and Foot it goes,
 And dwells above; among the Stars it grows;
 Surveys us here, and yet doth higher climb,
 Nestling itself into the Nest of Time,
 Where all's supply'd that is with Age decay'd,
 And makes it there almost before 'tis made.

M	W	Fasts and	☉	☾'s	D's	D rises	Mutual Asp.
D	D	Festivals.	H	Signs	A	and sets	and Weather.
1	F	<i>Nicomede.</i>	12	loins	12	1 m 57	June begins
2	S	No real night	13	secret	13	2 26	this year fine
3	G	Trinity Sund.	13	memb.	14	3 2	and pleasant,
4	M	K. Geo. 3. born	14	hips	15	3 43	with flying
5	Tu	Pr. Er. Aug. b.	15	thighs	F	rises	<i>Boniface.</i>
6	W	<i>Oxford T. beg.</i>	16	knees	17	9 a 32	clouds, and
7	Th	<i>Corpus Christi.</i>	17	hams	18	10 20	now and then
8	F	<i>Trin. Term beg.</i>	18	legs	19	11 1	a few showers
9	S	Day 16 28 long	19	ances	20	11 36	Δ δ ♀
10	G	1 S. aft. Trin.	20	feet	21	morn.	of rain.
11	M	St. Barnabas.	21	toes	22	0 4	
12	Tu	Night 7 30 long	22	head	23	0 29	Somewhat
13	W	4 sets 1 21 m.	23	and	24	0 55	warm and
14	Th	♀ rises 2 58 m.	24	face	25	1 21	hot, with
15	F	4 so. 7 43 aft.	25	neck	26	1 48	thunder
16	S	♀ so. 11 1 m.	26	throat	27	2 18	showers and
17	G	2 S. aft. Trin.	27	arms	28	2 50	<i>St. Alban.</i>
18	M	No real night	28	and	29	3 25	lightning, at
19	Tu	Day 16 34 long.	29	should.	N	sets	about the
20	W	<i>Tran. Ed. K.W.S</i>	30	breast	1	8 a 33	new moon,
21	Th	Longest Day.	1	stom.	2	9 12	or soon after,
22	F	Night 7 26 lo.	2	heart	3	9 45	☐ ☉ ♂
23	S	4 sets 0 39 m.	3	and	4	10 14	in several
24	G	3 S. aft. Trin. Nat. J.	4	Bapt.	5	10 40	Δ 4 ♀ <i>Midf.</i>
25	M	♀ rises 2 56 m.	5	bow.	6	11 7	places.
26	Tu	4 so. 6 57 aft.	6	belly	7	11 31	Sultry, with
27	W	<i>Trin. Term ends.</i>	7	reins	8	11 57	Δ 4 ♀
28	Th	♀ so. 11 18 m.	8	loins	9	morn.	gales of wind
29	F	<i>St. Peter.</i>	9	secret	10	0 21	and pleasant
30	S	No real night	9	memb.	11	0 52	weather.

The 1 day at 10 morn. Jupiter
 The 14 day at 3 aftern. Saturna
 The 17 day at 1 aftern. Mercury
 The 18 day at 7 morn. Venus
 The 27 day at 8 morn. Mars
 The 28 day at 5 aftern. Jupiter

} is with
 the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	3 52	8 8	9 a 8	Rain fell in June, 1790, was 0,708 Inches.
2	3 51	8 9	10 2	Rain (more or less) may be expected about the 9, 18, and 27 Days of this
G 3	50	8 10	11 0	
4	3 49	8 11	morn	
5	3 49	8 11	0 0	FULL Moon 5 day, at 1 morn.
6	3 48	8 12	1 2	Month; the Day before or Day after.
7	3 47	8 13	2 4	or later; here the Barometer is also a
8	3 47	8 13	3 4	Guide. Last Year I named 53 Times
9	3 46	8 14	4 1	for Rain, &c. within the compass of
G 3	46	8 14	4 55	three Days; and with us there were
11	3 45	8 15	5 45	LAST Quart. 11 day, at 4 aft.
12	3 45	8 15	6 33	but 12 Failures out of that Number.
13	3 44	8 16	7 20	The last Month or two produced some violent Aspects amongst the Planets, from which we may assuredly expect Actions and Accidents, suitable to their own Natures and Influx.
14	3 44	8 16	8 6	
15	3 44	8 16	8 52	
16	3 43	8 17	9 38	NEW Moon 19 day, at 1 aft.
G 3	43	8 17	10 25	
18	3 43	8 17	11 12	
19	3 43	8 17	11 59	There is a Cup of Vengeance preparing for the French and Romish Faction, for they have for many Years past been the Instruments of Injustice, Cruelty and Murder. It is well known, that France formerly had designed the Ruin of the House of Austria, and for that
20	3 43	8 17	0 a 46	
21	3 43	8 17	1 33	
22	3 43	8 17	2 19	FIRST Quart. 27 day, at 2 aft.
23	3 43	8 17	3 4	
G 3	43	8 17	3 48	
25	3 43	8 17	4 33	Purpose had, intrigued with Spain, she laboured to subdue Holland to demolish the Empire of England
26	3 44	8 16	5 18	
27	3 44	8 16	6 4	
28	3 44	8 16	6 52	
29	3 45	8 15	7 43	
30	3 45	8 15	8 38	

It fills the Orb, and there does hov'ring sit,
 The same was Birth-day to the Sun and it;
 Stretch'd and extended o'er all human Race,
 Drops here and there at its appointed Place;
 Each Day and Hour shews its immortal Sway,
 Those present and to come must all obey.

M D	W D	Fasts and Festivals	☉ signs	D's signs	D's A	D rises and sets	Mutual Asp. and Weather
1	G	S. aft. Trin.	10	hips	12	1 m 29	* ♀, * ♀
2	M	Visitat. V. M.	11	thighs	13	2 14	♂ ♀ ♀ The
3	Tu	Cam. Com. Dog	D. beg.		14	3 6	variety of as-
4	W	Transf. St. Mart.	13	hams	F	rises	pects that
5	Th	Old Midf. Day	14	legs	16	8 a 50	□ ♂ ♀ are
6	F	Camb. T. ends.	15	ances	17	9 28	in this month
7	S	Thomas à Becket.	16	feet	18	10 1	will no doubt
8	G	S. aft. Trin.	17	and	19	10 29	□ ♂ ♀ pro-
9	M	Oxford Aft.	18	toes	20	10 56	duce very
10	Tu	Day 16 16 long	19	head	21	11 23	♂ ☉ ♀ varia-
11	W	Night 7 46 lo.	20	face	22	11 49	ble and great
12	Th	24 sets 11 17 a.	21	neck	23	morn.	□ ♀
13	F	♀ rises 3 18 m	22	throat	24	0 16	variety of
14	S	Oxford T. ends.	23	arms	25	0 48	□ ☉ ♀
15	G	S. aft. Trin.	24	and	26	1 22	Switbin.
16	M	24 lo. 5 40 aft.	25	should.	27	2 3	□ ♀
17	Tu	♀ so. 11 37 m.	25	breast	28	2 50	weather, as
18	W	Day 15 58 lo.	26	stom.	29	3 40	rain, hail,
19	Th	Night 8 2 lo.	27	heart	N	sets	□ ♀
20	F	Margaret.	28	and	1	8 a 14	thunder,
21	S	24 sets 10 44 a.	29	back	2	8 43	lightning,
22	G	S. aft. Trin.	☉	bow.	3	9 9	M. Magdalen
23	M	♀ rises 3 41 m.	1	belly	4	9 34	rough winds,
24	Tu	24 lo. 5 11 aft.	2	reins	5	9 57	□ ☉ ♀
25	W	St. James.	3	and	6	10 22	* ♂ ♀
26	Th	St. Anne.	4	loins	7	10 52	and I rather
27	F	♀ sou. 11 50 m	5	secret	8	11 24	□ ♀
28	S	Day 15 32 long	6	memb.	9	morn.	* ♀
29	G	S. aft. Trin.	7	hips	10	0 3	doubt of
30	M	Night 8 34 lo.	8	thighs	11	0 50	much calm
31	Tu		9	knees	12	1 44	weather.

The 11 day, at 12 night, Saturn
 The 18 day, at 1 aftern. Venus
 The 20 day, at 2 morn. Mercury
 The 25 day, at 8 aftern. Mars
 The 26 day, at 5 morn. Jupiter

} is with
 the Moon.

M D	Sun rises	Sun sets	Moon South
G	3 46	8 14	9 a 36
2	3 46	8 14	10 36
3	3 47	8 13	11 39
4	3 48	8 12	morn.
5	3 48	8 12	0 41
6	3 49	8 11	1 41
7	3 50	8 10	2 38
G	3 50	8 10	3 32
9	3 51	8 9	4 23
10	3 52	8 8	5 12
11	3 53	8 7	5 59
12	3 54	8 6	6 45
13	3 55	8 5	7 31
14	3 56	8 4	8 17
G	3 57	8 3	9 4
16	3 58	8 2	9 51
17	4 0	8 0	10 39
18	4 1	7 59	11 26
19	4 2	7 58	0 a 12
20	4 3	7 57	0 58
21	4 5	7 55	1 44
G	4 6	7 54	2 29
23	4 7	7 53	3 13
24	4 9	7 51	3 58
25	4 10	7 50	4 44
26	4 11	7 49	5 33
27	4 13	7 47	6 25
28	4 14	7 46	7 20
G	4 16	7 44	8 17
30	4 17	7 43	9 17
31	4 18	7 41	10 19

Monthly Observations.

Rain fell in July, 1790, was 1,700
Inches.

Rain (more or less) may be expected

FULL Moon 4 day, at 7 morn.

about the 3, 11, 24, and 27 Days of
 this Month; the Day before or Day
 after.

and to rear an universal Monarchy up-
 on the Ruins of all together; but that
 LAST Quart. 11 day, at 2 morn.

Nation now begins to be wonderfully
 enlightened, as appears from the glo-
 rious and happy Spirit of Liberty that
 has so recently taken place amongst
 them, which I hope will continue to
 increase, against all Impediments and

NEW Moon 19 day, at 4 morn.

Obstructions whatever, and will, in
 Time, prove of the greatest Blessing
 that that People can possibly expect and
 hope for. This liberal Spirit, I say,
 will, in the end, very much change
 FIRST Quart. 26 day, at 12 night

and alter those political Views of
 France, both to the Advantage of her-
 self and other Nations.

Thus Providence is Fate (without Offence),
 And Fate consider'd is true Providence ;
 And both, or singly, take 'em as you please,
 Are God and Heaven's absolute Decrees :
 These supreme Causes actuate the Will,
 Incline to Good, but then whence comes the Ill?

M D	W D	Fasts and Festivals.	☉ Ω	☽ Signs	☿ A	D rises and sets	Mutual Asp. and Weather
1	W	Lammas Day	10	hams	13	2 m 53	Cloudy at
2	Th	Day 15 16 lo.	11	legs	F	rises	times, and
3	F	Night 8 48 lo.	12	ances	15	7 a 57	Δ h ♀ ra-
4	S	4 sets 9 52 af.	13	feet	16	8 28	♂ 4 ♂ ther
5	G	3 S. aft. Trin.	14	toes	17	8 57	windy, also
6	M	Transfiguration.	15	head	18	9 26	♂ ☉ ♀ some
7	Tu	Prs. Amel. b.	16	face	19	9 53	showers of
8	W	[Na. of Jesus	17	neck	20	10 20	rain, and
9	Th	2 sets 7 36 af.	17	and	21	10 51	claps of
10	F	St. Lawrence.	18	throat	22	11 24	thunder.
11	S	Prs. Brunf. b.	Dog D. E.		23	morn.	Serene, and
12	G	10 S. aft. Tr. Pr. Wales b.	24	breast	24	0 2	more favour-
13	M	[O. Lam. D.	21	and	25	0 46	able air,
14	Tu	4 so. 4 0 af.	22	stom.	26	1 35	with sea-
15	W	Assumption.	23	heart	27	2 30	* 4 ♀
16	Th	D. of York b.	24	back	28	3 28	sonable wea-
17	F	2 so. 0 11 af.	25	bow.	N	sets	8 h ♂ ther
18	S	Day b. 2 26	26	and	1	7 a 16	for harvest.
19	G	11 S. aft. Trin.	27	belly	2	7 41	Very hot,
20	M	Tw. en. 9 28	28	reins	3	8 6	Δ h ♀
21	Tu	D. of Clav. b.	29	loins	4	8 31	with storms
22	W	Day 14 6 long	30	secret	5	9 0	of thunder
23	Th	Night 9 58 lo.	1	memb.	6	9 30	in divers
24	F	St. Bartholo.	2	hips	7	10 5	* ♂ ♀
25	S	4 sets 8 39 aft	3	thighs	8	10 49	parts of the
26	G	12 S. aft. Trin.	4	knees	9	11 41	kingdom.
27	M	2 sets 7 11 af.	5	hams	10	morn.	Pleasant and
28	Tu	St. Augustine.	6	legs	11	0 41	goodweather
29	W	4 so. 3 13 af.	7	ances	12	1 51	now about.
30	Th	2 so. 0 26 aft.	8	feet	13	3 5	Some show-
31	F		9		F	4 24	ers.

MOORE. AUGUST, 1792.

The 8 day, at 10 morn. Saturn
 The 18 day, at 1 morn. Venus
 The 20 day, at 4 morn. Mercury
 The 22 day, at 5 aftern. Jupiter
 The 23 day, at 8 morn Mars.

is with
 the Moon.

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	4 20	7 40	11 2 20	<i>Rain fell in Aug. 1790, was 1,991 In.</i>
2	4 22	7 38	morn.	FULL Moon 2 day at 2 aftern.
3	4 24	7 36	0 19	Rain (more or less) may be expected
4	4 25	7 35	1 16	about the 2, 16, 18, and 27 Days of
G 4	4 27	7 33	2 10	this Month; the Day before or Day
6	4 28	7 32	3 2	after.
7	4 30	7 30	3 52	
8	4 32	7 28	4 40	This Month is ushered in with a
9	4 34	7 26	5 27	LAST Quart. 9 day, at 3 aftern.
10	4 35	7 25	6 14	♂ of ♀ and ♂, from whence we may
11	4 37	7 23	7 1	expect to hear of many Reports, both
G 11	4 39	7 21	7 48	true and false; and it is very likely to
13	4 41	7 19	8 36	be a Time of much Bustle and Stir.
14	4 42	7 18	9 24	This, together with the 8 of ♀ and
15	4 44	7 16	10 11	♂, signifies Wars, Murders, and
16	4 46	7 14	10 58	much Bloodshed: and though the
17	4 48	7 12	11 44	NEW Moon 17 day, at 7 aftern.
18	4 50	7 10	0 2 29	World is always full of Fraud and
G 18	4 51	7 9	1 14	Villainy; yet at this Time you will
20	4 53	7 7	2 0	see it more bare-faced and notorious.
21	4 55	7 5	2 47	Saturn also signifies the Romish Cler-
22	4 57	7 3	3 35	gy; this 8 of ♀ and ♂ will disco-
23	4 59	7 1	4 25	ver and detect some of their wicked
24	5 1	6 59	5 17	
25	5 2	6 58	6 12	FIRST Quart. 25 day, at 7 morn
G 25	5 4	6 56	7 10	Intrigues and Designs against the
27	5 6	6 54	8 9	Peace of the French Nation. It all
28	5 8	6 52	9 9	signifies Troubles and Disturbance
29	5 10	6 50	10 8	in Poland from the Punks or Tartars
30	5 12	6 48	11 5	
31	5 14	6 46	morn.	FULL Moon 31 day, at 10 night

18 SEPTEMBER XXX Days.

'Tis pretty hard, since they o'erfway the Will,
And teach us Good, that we grow worfer still;
Perhaps you'll say, our Nature thus inclines,
They move to Virtue, we increafe our Crimes;
That's pretty odd to fay (how can it be?)
My Heart is guilty, but my Hands are free.

M D	W D	Fests and Feasts.	☉ m	D's Signs	D's A	D riles and sets	Meteor. Asp. and weather
1	S	<i>Giles.</i>	10	toes	15	riles	Moderate
2	G	13 S. aft. Trin.	11	head	6	7 a 30	Lon. b. 1666
3	M	Day 6. 3 13	12	and	17	7 58	fair and good
4	Tu	Tw. ends 8 54	13	face	8	8 26	weather.
5	W	Day 13 14 lo.	14	neck	19	8 57	Some show-
6	Th	Night 10 50 lo.	14	throat	20	9 30	ers and
7	F	<i>Enurcbus.</i>	15	arms	21	10 8	wholesome
8	S	<i>Nativity V. M.</i>	16	should.	22	10 51	blasts of fresh
9	G	14 S. aft. Trin.	17	breast	23	11 38	winds purify
10	M	4 sets 7 44 aft.	18	and	24	morn.	and clear
11	Tu	8 sets 6 48 aft.	19	stom.	25	0 30	the air.
12	W	4 lo 2 33 aft.	20	heart	26	1 26	8 h 24
13	Th	8 lo. 0 40 aft.	21	back	27	2 26	Cold, with
14	F		22	bow.	28	3 28	some rain
15	S	☉ eclips. invis.	23	and	29	4 33	now about.
16	G	15 S. aft. Trin.	24	belly	N	sets	Seasonable
17	M	<i>Lambert.</i>	25	reins	1	6 a 44	☉ ☉ 8
18	Tu	Day br. 3 50	26	loins	2	7 12	* 8 8
19	W	Ember Week.	27	secret	3	7 42	weather for
20	Th	Tw. ends 8 5	28	memb.	4	8 16	the latter
21	F	St. Matthew.	29	hips	5	8 57	harvest.
22	S	K. Geo. III. cr.	☾	thighs	6	9 44	
23	G	16 S. aft. Trin.	1	knees	7	10 42	Cold and
24	M	Day 11 58 lo.	2	and	8	11 45	cloudy, with
25	Tu	Night 12 6 lo.	3	hams	9	morn.	<i>Holy Cross.</i>
26	W	St. Cyprian.	4	legs	10	0 57	brisk gales,
27	Th	4 sets 6 51 aft.	5	ances	11	2 11	and gene-
28	F		6	feet	12	3 28	rally dry.
29	S	St. Michael. Prs. Royal b.			13	4 43	
30	G	17 S. aft. Trin.	8	head	F	5 59	St. Jerome.

The 4 day, at 6 aftern. Saturn
 The 16 day, at 12 noon, Mercury
 The 17 day, at 10 morn. Venus
 The 19 day, at 7 morn Jupiter
 The 20 day, at 12 night, Mars

is with
 the Moon.

M D.	Sun rises	Sun sets	Moon South	Monthly Observations.
1	5 16	6 44	0 m 0	Rain fell in September, 1790, was 0,368 Inches.
G 5	18	6 42	0 54	
3	5 20	6 40	1 46	Rain (more or less) may be expected about the 13, 17, 23, and 30 Days of this Month; the Day before or Day after.
4	5 22	6 38	2 36	
5	5 23	6 37	3 25	and Danger of the Breach of Peace
6	5 25	6 35	4 14	
7	5 27	6 33	5 2	LAST Quart. 8 day, at 7 morn. betwixt the two Empires; as also be- tween the Emperor and the Swedish King. It also prefaces Sickness or some other Troubles in Ireland; and in Part confirms the late Oppositions of Jupiter and Saturn, the Effects of which, it is to be feared, will not so
8	5 29	6 31	5 51	
G 5	31	6 29	6 39	NEW Moon 16 day, at 9 morn. suddenly determine. I fear many wil suffer upon the Account of Religion that live under the Laws and Govern- ment of Popish Princes. Imprisonment Exiles, Slavery, is like to be the Fat
10	5 33	6 27	7 26	
11	5 35	6 25	8 14	FIRST Quart. 23 day, at 2 aft. of many. The Pope and his scarle Brethren, the Conclave of holy Car- dinals, are in a high Ferment. Divi- sions and Disappointments attend the Councils and Actions. Their Peno
12	5 37	6 23	9 0	
13	5 39	6 21	9 47	FULL Moon 30 day, at 9 morn.
14	5 41	6 19	10 33	
15	5 43	6 17	11 19	
G 5	45	6 15	0 a 5	
17	5 47	6 13	0 52	
18	5 49	6 11	1 41	
19	5 51	6 9	2 31	
20	5 53	6 7	3 23	
21	5 55	6 5	4 17	
22	5 57	6 3	5 13	
G 5	59	6 1	6 11	
24	6 1	5 59	7 9	
25	6 3	5 57	8 7	
26	6 4	5 56	9 3	
27	6 6	5 54	9 58	
28	6 8	5 52	10 51	
29	6 10	5 50	11 42	
G 6	12	5 48	morn.	

OCTOBER XXXI Days.

Still to grow worse shews (if I say I'm free)
 My Will is not the Thing it ought to be :
 For how can Will be free, when still we run
 into those Mischiefs which we ought to shun ;
 But where the Passion's strong that guides the Just,
 His Fate is hard, he sins because he must.

V	Fasts and Festivals.	☉	☾'s Signs	D's A	D rises and sets	Mutual Asp. and Weather
M	<i>Remigius</i>	9	face	15	rises	Some varia-
Tu	Day br. 4 20	10	neck	16	7 a 4	ble and un-
W	Tw. ends 7 36	11	throat	17	7 37	settled wea-
Th	Day 11 20 lo.	12	arms	18	8 13	ther, with
F	Night 12 44 lo.	13	and	19	8 53	some cold
S	<i>Faith.</i>	14	should.	20	9 38	8 h 2 rain,
1	28 S. aft. Trin.	15	breast.	21	10 29	or stormy
M	4 sets 6 12 af.	16	stom.	22	11 23	winds.
Tu	<i>St. Denys.</i>	17	heart	23	morn.	Temperate
W	<i>Ox. & C.T. beg.</i>	18	<i>Q. Mich.D</i>	24	0 22	and very
Th	2 sets 6 1 aft.	19	back	25	1 23	6 4 2
F	4 so. 1 7 af.	20	bow	26	2 27	seasonable
S	<i>Tr. K. Ed. Conf.</i>	21	belly	27	3 33	weather now
3	19 S. aft. Trin.	22	reins	28	4 42	about.
M	2 so. 1 12 af.	23	loins	N	sets	
Tu	Day br. 4 49	24	secret	1	5 a 50	
W	<i>Etheldred</i>	25	mem-	2	6 24	* 2 2
Th	<i>St. Luke</i>	26	bers	3	7 3	Brisk winds,
F	Tw. ends 7 5	27	hips	4	7 49	with some
S	Day 10 18 lo.	28	thighs	5	8 43	dark cloudy
3	20 S. aft. Trin.	29	knees	6	9 45	8 0 2
M	Night 13 50 lo.	30	hams	7	10 52	weather,
Tu	4 sets 5 25 af.	1	legs	8	morn.	with rain.
W	2 sets 5 45 af.	2	ances	9	0 5	
Th	<i>K. Geo. 3. Ac.</i>	3	feet	10	1 19	8 h 2 Crisp.
F	<i>K. Geo. 3. Pr.</i>	4	toes	11	2 34	Windy and
S	Day br. 5 10	5	head	12	3 48	stormy a few
3	1 S. aft. Tr. St.	6	face	13	5 2	days, in-
M	[Si. & Ju.	7	neck	F	rises	clined to
Tu	Tw. ends 6 44	8	and	15	5 a 38	frosty air.
W		9	throat	16	6 11	

MOORE. OCTOBER, 1792. 2

The 2 day, at 1 morn. Saturn
 The 14 day, at 10 night, Mercury
 The 17 day, at 2 morn. Jupiter
 The 17 day, at 11 morn. Venus
 The 19 day, at 5 aftern. Mars
 The 29 day, at 6 morn. Saturn

is with
 the Moon

M D	Sun rises	Sun sets	Moon South.	Monthly Observations.
1	6 14	5 46	0 m 33	Rain fell in October, 1790, was 1,10 Inches.
2	6 16	5 44	1 23	
3	6 18	5 42	2 13	Rain (more or less) may be expected about the 6, 16, 21, and 26 Days of this Month; the Day before or Day after.
4	6 20	5 40	3 2	
5	6 22	5 38	3 51	is almost done, and their Time is but LAST Quart. 8 day, at 2 morn
6	6 24	5 36	4 40	
G	6 26	5 34	5 28	short. God hath given them up into their own Hands to wound and destroy and extirpate one another; for when a Kingdom is divided against itself it cannot stand. The French are threat- ened with Danger, and their Monarch
8	6 28	5 32	6 16	
9	6 30	5 30	7 3	NEW Moon 15 day, at 11 night
10	6 32	5 28	7 49	
11	6 34	5 26	8 35	with the Dislike of his People; and this I expect may have taken Place before now: but yet, after all, the Face of Things seem to look with a moderate good Countenance, and Mat.
12	6 36	5 24	9 20	
13	6 38	5 22	10 6	FIRST Quart. 22 day, at 8 night
G	6 40	5 20	10 53	
15	6 42	5 18	11 41	ters are transacted with great Prudence and Judgment, by the National As- sembly of that Kingdom, and many great and weighty Matters are wisely managed by them.
16	6 44	5 16	0 a 31	
17	6 45	5 15	1 24	FULL Moon 29 day, at 10 night
18	6 47	5 13	2 19	
19	6 49	5 11	3 15	
20	6 51	5 9	4 13	
G	6 53	5 7	5 11	
22	6 55	5 5	6 9	
23	6 57	5 3	7 4	
24	6 59	5 1	7 58	
25	7 1	4 59	8 50	
26	7 3	4 57	9 41	
27	7 4	4 56	10 30	
G	7 6	4 54	11 19	
29	7 8	4 52	morn.	
30	7 10	4 50	0 8	
31	7 12	4 48	0 57	

If Will be free, and hath a Power to stand
 Against all Lusts and Passions of the Man,
 'Tis clears the Point, and makes your Freedom plain,
 'Tis in your Power to act, or to refrain:
 If this were true, we doubtless could do more
 Than Father Adam could or did before.

M D	W D	Fasts and Festivals	☉ m	D's Signs	D's A	D rises and sets	Mutual Asp. and Weather
1	Th	All Saints.	10	arms	17	6 a 52	Some cold
2	F	Pr. Edw. b.	11	should.	18	7 34	All Souls.
3	S	Prs. Sophia b.	12	breast	19	8 22	♂ 24 ♀, ♂ ☉ ♀
4	G	22 S. aft. Trin.	13	and	20	9 15	♂ 24 ♀, ♂ ☉, 24
5	M	Powder Plot.	14	stom.	21	10 11	Δ 2 ♀
6	Tu	Leona. Mi. T. b.	15	heart	22	11 10	winds and
7	W	Day br. 5. 25	16	back	23	morn.	generally
8	Th	Prs. A. Soph. b.	17	bow.	24	0 13	seasonable
9	F	Ld. Mayor's D.	18	and	25	1 17	weather.
10	S	Tw. ends 6 31	19	belly	26	2 24	Temperate
11	G	23 S. aft. Trin.	20	reins	27	3 33	St. Martin.
12	M	Cam. T. div. m	21	loins	28	4 43	and more
13	Tu	Britius.	22	secret	29	5 50	fine.
14	W	Day 8 48 lo.	23	memb.	N	sets	
15	Th	Macbatus	24	hips	1	5 a 37	Frosty air,
16	F	Night 15 18 lo.	25	thighs	2	6 33	and cold stor-
17	S	Hugh, Bp. Linc.	26	knees	3	7 34	my weather.
18	G	24 S. aft. Trin.	27	hams	4	8 41	
19	M	24 rises 6 30 m.	28	legs	5	9 53	
20	Tu	Edmund.	29	ankles	6	11 7	Δ 2 ♀
21	W	2 sets 5 41 a.	2	feet	7	morn.	Blustering
22	Th	Cecilia O. Mar.	1	toes	8	0 22	winds and
23	F	St. Clement.	2	head.	9	1 35	unsettled air,
24	S	24 fo. 10 49 m.	3	and	10	2 46	bringing
25	G	25 S. a. T. D. Glo. b.	4	face	11	3 55	rains or
26	M	2 fo. 2 3 aft.	5	neck	12	5 3	fleets; and
27	Tu	Day br. 5 50	6	throat	13	6 9	cloudy wea-
28	W	Term ends.	7	arms	F	rises	ther towards
29	Th	Tw. ends 6 8	8	should.	15	5 a 23	* 24 ♂
30	F	St. Andrew.	9	breast	16	6 9	the end.

The 13 day, at 9 night, Jupiter
 The 14 day, at 12 night, Mercury
 The 16 day, at 9 morn, Venus
 The 17 day, at 12 noon, Mars
 The 25 day, at 9 morn. Saturn

} is with
 the Moon.

M	Sun	Sun	Moon	Monthly Observations.	
D	rises	sets	South.		
1	7 14	4 46	1 m 46	<i>Rain fell in November, 1790, was</i>	
2	7 15	4 45	2 35	<i>2,512 Inches.</i>	
3	7 17	4 43	3 24	Rain or Sleet (more or less) may be	
G	7 19	4 41	4 12	expected about the 3, 9, 14, and 21	
5	7 21	4 39	4 59	Days of this Month; the Day before	
6	7 22	4 38	5 45	LAST Quart. 6 day, at 11 night.	
7	7 24	4 36	6 30	or Day after.	
8	7 26	4 34	7 15		
9	7 27	4 33	8 0	The Planet Saturn is now moving	
10	7 29	4 31	8 45	backwards out of Taurus again into	
G	7 31	4 29	9 32	Aries; where he has been ever since	
12	7 32	4 28	10 21	the Beginning of the Year 1791; this	
13	7 34	4 26	11 13	long Transit of $\frac{1}{2}$ in the Equinoctial	
14	7 36	4 24	0 a 7	NEW Moon 14 day, at 11 morn.	
15	7 37	4 23	1 4	Card'nal Sign Aries, the Ascendant	
16	7 39	4 21	2 3	of England, and his also being therein	
17	7 40	4 20	3 3	during his repeated Opposition with	
G	7 42	4 18	4 2	the benevolent Jupiter, shews that the	
19	7 43	4 17	4 59	grumbling Fry are still discontented,	
20	7 44	4 16	5 53	and nibbling at what they cannot	
21	7 46	4 14	6 45	FIRST Quart. 21 day, at 4 morn.	
22	7 47	4 13	7 35	touch without burning their Fingers,	
23	7 48	4 12	8 24	libelling and industriously distributing	
24	7 50	4 10	9 12	their pen-feathered Arguments, which	
G	7 51	4 9	9 59	being but upon Paper Foundations,	
26	7 52	4 8	10 47	are blown in the Air by the first	
27	7 53	4 7	11 35	Blast of Resentment from a pru-	
28	7 54	4 6	morn.	FULL Moon 28 day, at 2 after.	
29	7 56	4 4	0 24	dent King and a wise Council,	
30	7 57	4 3	1 12		

24 DECEMBER XXXI Days.

This Providence, Free-will, and mystic Fate,
Are God's unfathom'd Mysteries of State:
They dwell above in Harmony alone,
And move by certain Springs to us unknown;
We give them Names, hard Words with Nonsense fill'd,
Which please us, as your Rattles do a Child.

M	W	Fasts and Festivals.	Q	D's Signs	D's A	D rises and sets	Mutual Asp. and Weather
1	S	Day br. 5 54	10	and	17	6 a 59	* 24 ♀
2	G	Advent Sund.	11	stom.	18	7 54	Some open,
3	M	Tw. ends 6 5	12	heart	19	8 52	fine, pleasant
4	Tu	Day 3 o long	13	and	20	9 52	and-whole-
5	W	Night 16 2 long	14	back	21	10 53	some wea-
6	Th	Nicholas.	15	bow.	22	11 58	ther.
7	F	4 rises 5 34 m.	16	belly	23	morn.	Dark and
8	S	Conception.	17	reins	24	1 5	cloudy, with
9	G	2 S. in Advent.	18	loins	25	2 12	* 24 ♀
10	M	♀ sets 6 8 a.	19	secret	26	3 22	□ 12 ♂
11	Tu	4 so. 9 47 m.	20	memb.	27	4 35	some threats
12	W	♀ sou. 2 20 a.	21	hips	28	5 48	of rain.
13	Th	Lucy.	22	thighs	N	sets	□ 12 ♀
14	F	Day br. 5 59	23	knees	1	5 a 5	Cold winds,
15	S	Tw. ends 6 1	24	hams	2	6 11	with snow
16	G	3 S. in Advent.	25	legs	3	Old Sap.	Camb. T. e.
17	M	Oxford T. ends.	26	ankles	4	8 40	or fleet.
18	Tu	Day 7 44 long	27	feet	5	9 57	Expect frost,
19	W	Ember Week.	28	and	6	11 11	and some
20	Th	Night 16 16 lo.	29	toes	7	morn.	♂ ♂ ♀ snow;
21	F	St. Thomas.	30	head	8	12 25	Shortest Day.
22	S	4 rises 4 46 m.	1	face	9	1 35	now about,
23	G	4 S. in Advent.	2	neck	10	2 42	or else some
24	M	♀ sets 6 42 a.	3	throat	11	3 47	very cold
25	Tu	Christmas Day.	4	arms	12	4 50	rain.
26	W	St. Stephen.	5	and	13	5 50	Moderate
27	Th	St. John.	6	should.	14	6 45	weather, but
28	F	Innocents.	7	breast	F	rises	S.S. ♀ ♂ ra-
29	S	4 sou. 8 42 m.	8	stom.	16	5 a 32	ther unset-
30	G	Sund. aft. Chri.	9	heart	17	6 28	tled for some
31	M	Silvester.	10	back	18	7 27	days.

The 11 day, at 5 aftern. Jupiter
 The 15 day, at 8 morn. Mercury
 The 16 day, at 6 morn. Venus
 The 16 day, at 10 morn. Mars
 The 22 day, at 1 aftern. Saturn

} is with the
Moon.

M D	Sun rises	Sun sets	Moon Souths
1	7 58	4 2	2 m 0
G 2	7 59	4 1	2 47
3	8 0	4 0	3 33
4	8 0	4 0	4 18
5	8 1	3 59	5 2
6	8 2	3 58	5 46
7	8 3	3 57	6 30
8	8 4	3 56	7 15
G 9	8 4	3 56	8 1
10	8 5	3 55	8 50
11	8 5	3 55	9 42
12	8 6	3 54	10 37
13	8 6	3 54	11 35
14	8 7	3 53	0 2 36
15	8 7	3 53	1 37
G 16	8 7	3 53	2 37
17	8 8	3 52	3 35
18	8 8	3 52	4 29
19	8 8	3 52	5 21
20	8 8	3 52	6 10
21	8 8	3 52	6 58
22	8 8	3 52	7 45
G 23	8 8	3 52	8 32
24	8 8	3 52	9 19
25	8 7	3 53	10 7
26	8 7	3 53	10 55
27	8 7	3 53	11 43
28	8 6	3 54	morn.
29	8 6	3 54	0 30
G 30	8 5	3 55	1 16
31	8 5	3 55	2 1

Monthly Observations.

Rain in Dec. 1790, was 2,093 inches.

Rain or snow (more or less) may be expected about the 3, 15, 20, and 30 days of this month; the day before or day after.

Last quar. 6 day, at 7 night.

I have lately seen a prophecy written six or seven hundred years since, taken out of the Library of St. Victor at Paris, which is to this effect. Woe to thee thou seven hill'd city (Rome)

New Moon 13 day, at 10 night.

when Liberty spreads in France, for then the fall and destruction of thy mighty men is at hand. Woe to thee thou city of blood, full of lying, falsehood and violence; the voice of the scourge, and of warlike horses and

First quar. 20 day, at 2 aftern.

chariots, shall not depart from thee. Thy gold is darkened, rust hath consumed it and spoiled it. That is, the gold of God's word is obscured, and religion is corrupted, &c.

The Pope's power will receive a very

Full moon 28 day, at 8 morn.

great shock, civil and religious, before the year of our Lord 1800, or near that time.

The Dominion of the Moon in Man's Body.

Passing under the Twelve Zodiacal Constellations.

♈ <i>Aries</i> Head and Face	♎ <i>Libra</i> Reins and Loins
♉ <i>Taurus</i> Neck and Throat	♏ <i>Scorpio</i> secret Members
♊ <i>Gemini</i> Arms and Shoulders	♐ <i>Sagittary</i> Hips and Thighs
♋ <i>Cancer</i> Breast and Stomach	♑ <i>Capricorn</i> Knees & Hams
♌ <i>Leo</i> Heart and Back	♒ <i>Aquarius</i> Legs and Ancles
♍ <i>Virgo</i> Bowels and Belly	♓ <i>Pisces</i> Feet and Toes

The Names and Characters of the PLANETS.

♄ Saturn	} ☉, or the Sun	♀ Venus
♃ Jupiter		☿ Mercury
♂ Mars		♁ the Moon
♈ Dragon's Head.		♓ Dragon's Tail.

The CHARACTERS of the ASPECTS.

♋ Conjunction	} ☿ Opposition	Δ Trine
♊ Sextile		◻ Quartile

Upon the TWELVE SIGNS.

- ♈ The Head and Face the *Ram* doth always rule :
 ♉ The Neck and Throat are govern'd by the *Bull*.
 ♊ O'er the Arms and Shoulders still the *Twins* preside :
 ♋ Breast, Stomach, Ribs, the crooked *Crab* doth guide.
 ♌ The noble *Lion* rules the Back and Heart :
 ♍ The bashful *Virgin* claims the Belly Part.
 ♎ The Reins and Loins the equal *Balance* weigh :
 ♏ The *Scorpion* o'er the Secret Parts doth sway.
 ♐ The curious *Archer* doth the Thighs affect :
 ♑ So doth the *Goat* our bended Knees protect.
 ♒ The Legs unto *Aquarius*' Lot do fall :
 ♓ The *Fish* our active Feet their Portion call.

A plain and easy TABLE, shewing the Time of HIGH-WATER.

<p>NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH-WATER at all the undernamed Places.</p>											
<p>Queenborough, Portsmouth, Southampton, Kentish-Knock, Leith, Beachy, Isle of Wight, Dunkirk, Caddado, Coast of Flanders, at the Spits and Dover Pier.</p>											
<p>Gravelend, Downs, Blacknefs, Romney, Thanet, Scilly Half-tide, North-Cape before Cocquit, and between Calais and Dover.</p>											
<p>London, Tinnouth, Hartlepool, Amsterdā, Whitby, Dort, Gascon, West of Ireland, at Groin, at Rotterdam, and in Robin-Hood's Bay.</p>											
<p>Newcastle, Humber, Falmouth, Seven-mouth, at the Spurn between Scilly and Lizard, Ramfey, Dartmouth, Guernsey, Torbay, St. Malo's.</p>											
<p>Plymouth, Antwerp, Hull, St. David's, Holms of Bristol, Lundy, St. Paul's, Salcom without Liffant, at Waterford, Bolton, and at Lynn Half-tide.</p>											
<p>Bristol-Key, Weymouth-Key, Aldborough, Foulness, Lims, the Start before St. Nicholas, Sedmouth in the Channel, between Foy and Falmouth.</p>											
<p>Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Forland, St. Helen's, Coast of Normandy, and Picardy.</p>											
<p>Hague, Peter-port, Dublin, between Beachy and the Isle of Wight, Yarmouth, St. Magnus's Sound, Cumbay without the Coast of the Channel.</p>											
h	m	h	m	h	m	h	m	h	m	h	m
1	16	12	48	2	18	3	40	6	3	6	48
2	17	1	36	3	6	4	30	6	51	7	36
3	18	2	24	3	54	5	24	7	39	8	24
4	19	3	12	4	42	6	18	8	27	9	12
5	20	4	0	5	30	7	6	9	15	10	0
6	21	4	48	6	18	7	48	10	3	10	48
7	22	5	36	7	6	8	36	10	51	11	36
8	23	6	24	7	54	9	24	11	39	12	24
9	24	7	12	8	42	10	12	12	27	1	12
10	25	8	0	9	30	11	0	1	15	2	0
11	26	8	48	10	18	11	48	2	3	3	48
12	27	9	36	11	6	12	36	3	51	4	36
13	28	10	24	11	54	1	24	3	39	4	24
14	29	11	12	12	42	2	12	4	27	5	12
15	30	12	0	1	30	3	0	5	15	6	0

The foregoing Table explained.

NOTE, That the Moon's Age being taken notice of, by the Rule in this TABLE you may obtain the Time of HIGH-WATER at all the Places above named. Observe, When the Moon is one or fifteen Days old, it is HIGH-WATER at London, Tinnouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes past. Observe the same of the rest, which is plain to the nearest Capacity. The Day of the Moon's Age you have in the sixth Column on every Left hand Page of the Calendar.

18 REGAL TABLE.

KINGS and QUEENS from the Conquest.

KINGS Names.	Began their Reigns.	Reigned Y. M. D.	Since their Reigns.	Buried at
W. Conq.	1066 Oct. 14	10 10 26	705 Sept.	9 Caen, Norm.
W. Rufus	1087 Sept. 9	12 10 24	692 Aug.	2 Winchester
Henry 1	1100 Aug. 2	15 3 29	657 Dec.	2 Reading
Stephen	1135 Dec 1	18 10 24	638 Oct.	25 Faversham

The Saxon Line restored.

Henry 2	1154 Oct. 25	34 8 11	603 July	6 Fontevrault
Richard 1	1189 July 6	9 9 0	593 April	6 Fontevrault
C. John	1199 Apr. 6	17 6 13	576 Oct.	19 Worcester
Henry 3	1216 Oct. 19	56 0 28	520 Nov.	16 Westminster
Edward 1	1272 Nov. 16	34 7 21	485 July	7 Westminster
Edward 2	1307 July 7	19 6 18	465 Jan.	25 Gloucester
Edward 3	1327 Jan. 25	50 4 27	415 June	21 Westminster
Richard 2	1377 June 21	22 3 8	393 Sept.	29 Westminster

The Line of Lancaster.

Henry 4	1399 Sept. 29	13 5 20	379 Mar.	20 Canterbury
Henry 5	1413 Mar. 20	9 5 11	370 Aug.	31 Westminster
Henry 6	1422 Aug. 31	13 6 4	351 Mar.	4 Windsor

The Line of York.

Edward 4	1461 Mar. 4	22 1 5	309 April	9 Windsor
Edward 5	1483 Apr. 9	0 2 13	309 June	22 Unknown
Richard 3	1483 June 22	2 2 0	307 Aug.	22 Leicester

The Families United.

Henry 7	1485 Aug. 21	13 8 0	283 Apr.	22 Westminster
Henry 8	1509 Apr. 21	37 9 6	245 Jan.	28 Windsor
Edward 6	1547 Jan. 28	6 3 2	239 July	6 Westminster
Q. Mary	1553 July 5	5 4 22	234 Nov.	17 Westminster
Q. Elizabeth	1558 Nov. 17	44 4 7	189 Mar.	2 Westminster

The Union of the Two Crowns.

James 1	1603 Mar. 24	22 0 3	167 Mar.	27 Westminster
Charles 1	1625 Mar. 27	23 10 1	243 Jan.	30 Windsor
Charles 2	1649 Jan. 30	36 0 7	107 Feb.	6 Westminster
James 2	1685 Feb. 6	4 0 7	203 Feb.	23 Paris
Will. & Mary	1689 Feb. 13	13 0 23	90 Mar.	2 Westminster

The Union of the Two Kingdoms.

Q. Anne	1702 Mar. 8	12 4 24	78 Aug.	1 Westminster
George 1	1714 Aug. 1	12 10 10	63 June	13 Hanover
George 2	1727 June 22	23 4 16	32 Oct.	25 Westminster
George 3	1760 Oct. 25	Crowned September 27, 1762.		

A TABLE of the Equation of Time for regulating Clocks and Watches for 1792. Note, fa. Clock too fast, that is your Clock, to be set right, must be so much faster than the Sun Dial. flo. Clock too slow, that is your Clock must be so much slower than the Sun Dial.

D.	January	February	March	April	May	June
1	4 fa. 2"	14 fa. 3"	22 fa. 30"	3 fa. 42"	3 fl. 12"	2 fl. 30"
3	4 58	14 17	18 4	3 6	3 26	2 21
5	5 52	14 27	18 35	2 30	3 37	1 51
7	6 45	14 34	18 6	1 55	3 46	1 29
9	7 35	14 38	10 34	1 21	3 53	1 6
11	8 24	14 39	10 2	0 48	3 57	0 42
13	9 10	14 37	9 28	0 17	4 0	0 18
15	9 53	14 32	8 54	flow 13	3 59	fast 8
17	10 34	14 24	8 18	0 42	3 56	0 33
19	11 12	14 23	7 42	1 9	3 51	1 0
21	11 47	14 0	7 6	1 34	3 44	1 26
23	12 19	13 44	6 29	1 58	3 35	1 52
25	12 48	13 26	5 52	2 29	3 24	2 27
27	13 23	13 5	5 15	2 39	3 20	2 42
29	13 36	12 42	4 18	2 56	2 55	2 6

D.	July	August	September	October	November	December
1	3 fa. 29"	5 fa. 51"	0 fl. 30"	10 fl. 38"	16 fl. 15"	10 fl. 17"
3	3 51	5 42	1 8	12 25	16 23	9 29
5	4 12	5 30	2 48	12 52	16 21	9 36
7	4 31	5 16	2 28	12 24	16 3	7 42
9	4 49	5 0	3 9	12 56	15 52	6 52
11	5 5	4 41	3 50	13 27	15 38	5 57
13	5 20	4 21	4 32	13 55	15 20	4 59
15	5 32	3 58	5 14	14 20	14 59	4 0
17	5 43	3 33	5 56	14 44	14 35	3 7
19	5 52	3 7	6 37	15 5	14 7	2 1
21	5 59	2 32	7 29	15 23	13 36	1 1
23	6 3	2 7	8 0	15 39	13 2	0 1
25	6 4	2 35	8 41	15 52	12 25	fast 39
27	6 4	1 1	9 21	16 3	11 45	1 53
29	6 0	0 26	10 0	16 10	11 2	2 46

How to set a Clock or Watch by this Table. For Example, Jan. the 1st. 1. Find, by looking into the Table, that a Clock to be right must be 4 Minutes & Seconds faster than a Sun Dial; therefore I set it so much faster accordingly. And so of the rest. Twelve o'Clock is the best Time to set a Clock or Watch by a Dial.

2. Note. A Sun Dial shews Solar or Apparent Time; but a Clock, &c. should be set to Equal or Mean Time, as the Table directs, to go right.

A TABLE of TERMS and Returns for the Year 1792.

Hillary Term begins Jan. 23. ends Feb. 13.

Returns, or Effoign Days.	Exc.	Ret.	Ap	W. D.
In eight Days of St. Hilary - - - - Jan. 20	21	22	23	Monday
In fifteen Days of St. Hilary - - - - 27	28	29	30	Monday
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Monday
In eight Days of the Purif. of the Bl. V. M. - 9	10	11	12	Monday

Easter Term begins April 25, ends May 21.

In fifteen Days of Easter - - - - April 22	23	24	25	Wednesday
From Easter Day in three Weeks - - - - 29	30	M. 1	2	Wednesday
From Easter Day in one Month - - - - 6	7	8	9	Wednesday
From Easter Day in five Weeks - - - - 14	15	16	17	Wednesday
On the Mor. of the Ascension of the Lord - 21	22	23	24	Monday

Trinity Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity - June 4	5	6	7	Friday
In eight Days of the Holy Trinity - - - - 10	11	12	13	Wednesday
In fifteen Days of the Holy Trinity - - - - 17	18	19	20	Wednesday
From the Day of the Holy Trinity in 3 Weeks 24	25	26	27	Wednesday

Michaelmas Terms begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - - - Nov. 3	4	5	6	Tuesday
On the Morrow of St. Martin - - - - 12	13	14	15	Thursday
In eight Days of St. Martin - - - - 19	20	21	22	Wednesday
In fifteen Days of St. Martin - - - - 26	27	28	29	Wednesday

N. B. No Sittings in Westminster Hall on the Second of February, Ascension day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the first and last Days of Appearance.

Common Notes for the Year 1792.

Golden Number - - - - 7	Lent begins - - - - Feb. 22
Easter - - - - 6	Easter-day - - - - Apr. 8
Cominical Letter - - - - AG	Rogation Sunday - - - - May 13
Cycle of the Sun - - - - 9	Ascension day - - - - May 17
Sundays after Epiphany - - - - 4	Whit. Sunday - - - - May 27
Number of Direction - - - - 28	Sundays after Trinity - - - - 25
Septuagesima Sunday - Feb. 5	Advent Sunday - - - - Dec. 2

Chronology of many remarkable Occurrences.

<i>Years of Christ.</i>		<i>Years since.</i>
1066	William (the Norman) conquered England	726
1185	Ireland conquered by the English	607
1299	Windmills invented	493
1302	The Mariner's Compass invented	490
1304	Edward I. reduced Scotland	488
1330	Gunpowder discovered by a Priest	462
1369	Wickliff first began the Reformation	423
1441	Printing invented by a German	351
1492	Columbus discovered America	300
1521	Engraving on Wood, invented by Albert Durer	271
1535	Cannon first used	257
1584	Virginia discovered by Sir Walter Raleigh	208
1590	Telescopes invented by Jansen, a Dutchman	202
1603	Queen Elizabeth died, King James succeeded	180
1603	A great Plague in London, died 56,570	180
1603	King James I. crowned July 15, at Westminster	180
1605	The Popish Gunpowder Plot, November 5	187
1610	Jupiter's Satellites first discovered	182
1614	The New River brought to London	178
1616	Shakespeare the Poet died	176
1625	A great Plague in London, died 34,517	167
1625	K. James I. died, K. Charles I. crown'd, Feb. 2	167
1632	A great Fire on London Bridge, Feb. 11	160
1634	Old Parr died, aged 152, he lived in ten Reigns	158
1641	The Earl of Strafford beheaded, May 12	151
1641	The cruel Irish Massacre, began October 23	151
1642	Sir Isaac Newton born, December 25	150
1649	King Charles I. beheaded	143
1651	The bloody Fight at Worcester	141
1653	Oliver Cromwell made Protector, Dec. 12	139
1655	George Fox, the first of the Quakers	137
1658	Spring Pocket-Watches, invented by Dr. Hook	134
1658	Oliver Cromwell died, Sept. 3	134
1660	King Charles II. restored, May 29	132
1661	K. Charles II. crown'd, April 23, at Westminster	131
1661	A great Storm in London, Feb. 18	131
1662	The Royal Society instituted	130
1665	A great Plague in London, whereof died 68,586	127
1666	The lamentable burning of London, Sept. 2	126
1667	Peace with Holland, France and Denmark	125

1667	The Royal Exchange built	125
1668	Peace proclaimed with Spain, Feb. 12	124
1669	The Royal Exchange first opened, Sept. 28	123
1670	The Prince of Orange arrives at Whitehall	122
1672	War declared against the Dutch	120
1672	Halfpence and Farthings first coined, Aug. 16	120
1674	Peace with Holland, proclaimed Feb. 28	118
1677	Prince of Orange married to the Princess Mary	115
1678	The Popish Plot discovered	114
1679	The Habeas Corpus Act passed	113
1680	A great Comet appeared in December	112
1682	Another great Comet appeared	110
1683	The Penny-Post Office established	109
1684	The great Frost that held 13 Weeks	108
1685	K. Charles II. died, and K. James II. succeeded	107
1685	The Duke of Monmouth beheaded, July 15	107
1688	{ The seven Bishops sent to the Tower, June 8 } { The Pretender said to be born, June 10 - }	104
1688	Prince of Orange landed at Torbay, Nov. 4	104
1688	King James II. abdicated, Dec. 12	104
1689	King William and Q. Mary crowned, April 11	103
1692	Port Royal swallowed up by an Earthquake	100
1694	A great Earthquake in England, Sept. 8	100
1693	Hackney Coaches first licensed	99
1693	Bank of England established	99
1694	Lottories first established	98
1702	K. William died, and Q. Ann began to reign	90
1702	Queen Ann declared War against France	90
1704	Gibraltar taken by Sir George Rook	88
1706	The Battle at Ramillies on Whit-Sunday	86
1707	England and Scotland united, May 1	85
1708	The Pretender attempted to invade Great-Britain	84
1709	The French beat in the Wood of Blanglies	83
1710	Great Riots and Disturbances in England	82
1713	Peace with France proclaimed, May 5	79
1714	Q. Ann died, and Geo. I. began to reign, Aug. 1	78
1715	A total Eclipse of the Sun, April 25	77
1715	The Rebellion in Scotland and Lancashire	77
1716	A great Frost and Snow. A Fair on the Thames	76
1718	The first Appearance of the Northern Lights	74
1719	A great Eury Menor, March 19, at first Night	73
1727	The great Sir Isaac Newton died, March 21	68

C H R O N O L O G Y.

1727	K. George I. died June 11. K. Geo. II. procl.	5
1727	An Earthquake in several Parts of England	6
1739	War declared against Spain, Oct. 23	5
1739	Forts of Porto Bello destroyed by Admiral Vernon	5
1739	A hard Frost for 9 Weeks, began Dec. 24	5
1743	The Battle of Dittengen, June 16	4
1744	Anson completed his Voyage round the World	4
1744	War declared by Gr. Br. against France, Mar. 31	4
1745	A Rebellion in Scotland	4
1746	The Scotch Rebels defeated at Culloden, Apr. 16	4
1748	A general Peace concluded, October 7	4
1750	Westminster Bridge finished, cost £ 389,500	4
1750	Earthquakes in London, Feb. 8, and Mar. 8	4
1752	The Style and Calendar altered, Sept. 3	4
1755	Lisbon destroyed by an Earthquake	3
1756	War declared against France	3
1758	A large Comet appeared, foretold by Dr. Halley	3
1760	K. Geo. II. died, Oct. 25, K. Geo. III. procl. 26	3
1762	A great Snow for 18 Days together, in Feb.	3
1763	A general Peace proclaimed, March 21	2
1763	Otaheite in the South Seas discovered	2
1765	{ Longitude found by Harrison's Time-piece, and 18,750l. given him	2
1765	General Warrants declared illegal	2
1766	Gibraltar almost destroyed by a Storm	2
1770	Blackfriars Bridge finished, cost £ 152,840	2
1772	The Swedes forced to resign their Liberties to the K.	2
1773	The light Gold called in and recoined	1
1775	War declared against North America, Aug. 23	1
1776	The Americans declare themselves independent	1
1778	The French sign a Treaty with the Americans	1
1778	War against France commenced	1
1779	War against Spain begun	1
1780	War against Holland commenced	1
1780	Riots in London, and Goals burned	1
1781	Spanish Fleet defeated at Gibraltar	1
1781	New Planet discovered by Herschel	1
1782	French Fleet defeated in the West Indies	1
1783	A general Peace	0
1783	Fiery Meteor passed over England, Aug. 12	0
1789	A Commercial Treaty with France concluded	0
1789	A Revolution in France	0
1790	Joseph II. Emperor of Germany died	0

TABLE of the Rising, Southing, and Setting of the
Pleiades, or Seven Stars, for every 4th Day in the Year,
of excellent Use to find the Hour of the Night.

4th Days	Rise h m	South h m	Set h m	Month & Days	Rise h m	South h m	Set h m
1	0 21	8 24	5 m 7	July {	1 om 36	6m 54	5 21 C
6	0 26	8 22	4 38		6 0 18	8 34	4 50
11	11m 44	8 C	4 16		11 11 A 57	8 23	4 29
16	11 23	7 39	3 5		16 11 37	7 53	4 9
21	10 52	7 18	3 34		21 11 17	7 33	3 49
26	10 40	6 56	3 12		26 10 57	7 13	3 29
1	10 17	6 33	2 49	August {	1 10 33	6 49	3 5
6	9 56	6 12	2 28		6 10 14	6 30	2 46
11	9 36	5 52	2 8		11 9 55	6 11	2 27
16	9 17	5 33	1 49		16 9 36	5 52	2 8
21	8 58	5 14	1 30		21 9 17	5 33	1 49
26	8 39	4 55	1 11		26 8 59	5 13	1 31
1	8 21	4 44	1 0	September {	1 8 37	4 53	1 9
6	8 10	4 26	0 42		6 8 19	4 35	0 51
11	7 52	4 8	0 24		11 8 1	4 17	0 33
16	7 33	3 49	0 5		16 7 43	3 59	0 5
21	7 15	3 31	11 47		21 7 26	3 42	11m 58
26	6 57	3 13	11 29		26 7 8	3 24	11 40
1	6 35	2 51	11 7	October {	1 6 50	3 6	11 22
6	6 17	2 33	10 49		6 6 32	2 48	11 4
11	5 58	2 14	10 30		11 6 13	2 29	10 45
16	5 40	1 56	10 2		16 5 54	2 10	10 26
21	5 21	1 37	9 53		21 5 36	1 52	10 8
26	5 2	1 18	9 34		26 5 15	1 31	9 47
1	4 43	0 59	9 15	November {	1 4 54	1 10	9 26
6	4 24	0 40	8 56		6 4 34	0 50	9 6
11	4 5	0 21	8 37		11 4 14	0 30	8 46
16	3 45	0 1	8 17		16 3 53	0 9	8 25
21	3 26	11m 42	7 58		21 3 26	11 2 44	8 C
26	3 56	11 22	7 38		26 3 7	11 23	7 39
1	2 41	10 57	7 13	December {	1 2 46	11 2	7 21
6	2 21	10 37	6 53		6 2 24	10 40	6 56
11	2 1	10 17	6 33		11 2 2	10 18	6 34
16	1 42	9 58	6 14		16 1 40	9 56	6 12
21	1 19	9 35	5 51		21 1 28	9 34	5 50
26	0 5	9 15	5 31		26 0 56	9 12	5 29

TABLE of some principal fixed Stars, with the Time they rise, South and Set, either before or after the Seven Stars; as also their Colour, Magnitude, and Meridian Altitude, by which they may be readily discovered.

Co- lour	Alt	Mag	Names of the Stars.	Rise		South		Sets	
				h	m	h	m	h	m
♂	53	1	Aldebaran, or Bull's Eye	1	23	0	24	0	6
♂	29	1	Left Foot of Orion	4	31	1	31	1	34
♂	36	2	Middle * in Orion's Belt	4	13	1	51	0	35
♂	45	1	Right Shoulder of Orion	3	23	2	8	0	8
♂	21	1	Syrus, the great Dog	6	41	3	1	0	48
♂	43	2	Procyon, the little Dog	5	33	3	53	2	7
♂	30	1	Heart of Hydra	8	39	5	41	2	44
♂	51	1	Regulus, Lion's Heart	7	25	6	21	5	16
♂	54	1	The Lion's Tail, Denah	8	42	7	54	7	7
♂	28	1	Virgin's Spike	12	46	9	38	6	36
♂	24	1	Arcturus	10	47	10	30	10	12
♂	12	1	Antares, the Scorp. Heart	17	36	12	39	7	42
♂	46	2	Bright * of the Vulture	17	38	16	3	9	27
♂	6	1	Fomelhaut	11	14	19	11	10	37
♂	56	2	Head of Andromeda	10	42	10	10	2	56

THE brightest of the seven stars is of the third magnitude, and hath 61 degrees of meridian altitude, and in colour participates of the δ and γ .

The fixed stars all rise, South, and set about four minutes sooner every night than they did the night before; this considered, the exact time of rising, Southing, and setting for any intermediate nights, not herein noted, may be very easily deduced from these tables, by inspection only.

To know the time of rising, Southing, and setting of any star in this table, for any day required, it is but considering how many hours and minutes that star rises, Souths, or sets, either before or after the seven stars on that day, and you will have your desire, observing that in this table, a stands for after, and b for before.

Metacore

METEOROLOGICAL OBSERVATIONS.

IN two or three of my preceding Almanacks, I gave a few useful Rules, &c. for judging of the Weather by the Thermometer or Weather Glass; and in order to improve and complete what I have begun, I now mean to enter upon a series of curious and useful Speculation on Evaporation, Rain, Winds, Lightning and Thunder, &c. &c.

Dr. Hamilton, having evinced the Agreement between Solution and Evaporation, concludes, that Evaporation is nothing more than a gradual Solution of Water in Air, produced and promoted by Attraction, Heat, and Motion, just as other Solutions are effected.

In order to Account for the Ascent of watery Vapors into the Air or Atmosphere, this ingenious Writer observes, that the lowest Part of the Air being pressed by the Weight of the Air against the Surface of the Water, and continually being upon it by its Motion, attracts and dissolves those Particles with which it is in Contact, and separates them from the rest of the Water. And since the Cause of Solution in this Case is the stronger Attraction of the Particles of Water towards the Air than towards each other, those that are already dissolved and taken up will be still farther raised by the Attraction of the dry Air which lies over them, and these diffuse themselves, rising gradually higher and higher, thereby leave the lowest Air, not so much saturated but that it will still be able to dissolve and take up fresh Particles of Water; which Process is greatly promoted by the Motion of the Wind. When the Vapors are thus raised and carried by the Winds into the higher and colder Parts of the Atmosphere, some of them will coalesce into small Particles, which mutually attracting each other, and being intermixed with Air, form Clouds; and these Clouds will float at different Heights, according to the Quantity of Vapors borne up, and the Degree of Heat in the upper Parts of the Atmosphere. Clouds are generally higher in Summer than in Winter, and the Clouds are much increased by a continual Addition of Vapors, and their Particles are driven close together by the Force of the Winds, they will run into Drops heavy enough to fall down in Rain. If the Clouds are frozen, and their Particles are gathered into Drops, small Pieces of them

ON EVAPORATION, &c. 27

them being condensed and made heavier by Cold, fall down in thin Flakes of Snow. If the Particles are formed into Drops before they are frozen, they become Hail-stones. When the Air is replete with Vapors, and a cold Breeze springs up, which checks the Solution of them, Clouds are formed in the lower Parts of the Atmosphere, and compose a Mist or Fog, which usually happens in a cold Morning; and is dispersed when the Sun has warmed the Air, and made it capable of dissolving these watery Particles. Southerly Winds generally bring Rain, because commonly Warm and replete with aqueous Vapors, they are cooled by passing into a colder Climate; and therefore Part with some of them, and suffer them to precipitate into Rain; whereas northerly Winds, being cold, and acquiring additional Heat by coming into a warmer Climate, are ready to dissolve more Vapor than they before contained; and therefore, by long Continuance, they are dry and parching, and usually attended with fair Weather.

Changes of the Air, with Respect to its Density and Rarity, as well as its Heat and Cold, will produce contrary Effects in the Solution of Water, and the consequent Ascent or Fall of Vapors. Several Experiments prove, that Air, when rarefied, cannot keep as much Water dissolved as it does in a more condensed State; and therefore, when the Atmosphere is saturated with Water, and changes from a denser to a rarer State, the higher and colder Parts of it will let go some of the Water before dissolved, form new Clouds, and dispose them to fall down in Rain; but a Change from a rarer to a denser State, will stop the Precipitation of the Water, and enable the Air to dissolve either in Whole, or in Part, some of these Clouds that were formed before, and render their Particles less apt to run into Drops and fall in Rain. On this Account, we generally find, that the rarefied and condensed States of the Atmosphere are respectively attended with Rain or fair Weather. [To be continued.]

An Account of the Eclipses, and some other astronomical Appearances, in the Year 1792; calculated from new Tables, founded on the latest Observations.

ASTRONOMY, for its Excellency, justly challenged the highest Place of all human Sciences; and is distinguished

the Heart of Man above the Heavens by invisible Lines and immortal Beams, meeteth with the Reflection of Light incomprehensible, and procureth Delight and Satisfaction unspeakable.

Sacred Urania! with whose Beauty fir'd,
My Soul is ravish'd, and my Brain inspir'd;
Give me the Ways of wand'ring Stars to know;
The Depth of Heaven above, and Earth below;
Why flowing Tides prevail upon the Main,
And in what dark Recess they shrink again?
What shakes the solid Earth? What Cause delays
To Summer Nights, and shortens Winter Days?
Teach me the various Labours of the Moon,
And whence proceed th' Eclipses of the Sun?

O teach me how thy wond'rous Works to trace,
In every Part of universal Space!

The luminarian Eclipses which happen this Year are only Two, they both of the *Sun*, and both of them invisible to the Inhabitants of this Island.

The First is on *Thursday* the 22d Day of *March*, at 50 Minutes after our Five o'Clock in the Afternoon. Notwithstanding the *Sun* is not then set, it will be invisible to us (as well as to all *Europe*) by Reason of the Smallness of the *Moon's* true Latitude, which at the Time of her true Conjunction with the *Sun*, is but 3 Minutes and 30 Seconds of a Degree to the North, whereby her Parallax will depress the visible Place of her Centre more than is the Space taken up by the Semidiameters of the *Sun* and *Moon*. It will be a great Eclipse in the Southern Parts of the Globe, and in *Terra Firma* in *South America*, it will be both central and angular; but the Ring of Light round the dark Body of the Moon, will be exceeding small and narrow, for the apparent Diameter of the Moon, at that Time, is but very little less than the apparent Diameter of the *Sun*: This Appearance happeneth in the Meridian (that is at Twelve o'Clock at Noon) under 4 Degrees 45 Minutes North Latitude, and 87 Degrees 52 Minutes West Longitude from *London*. This Eclipse will be visible (more or less in Quantity) in the *West-India* Islands, and to *New Spain*.

The Second Eclipse is on *Sunday* the 16th Day of *September*, at 18 Minutes after our Nine o'Clock in the Morning.

But by Reason of the *Moon's* South Latitude (which is a Minute of a Degree) this Eclipse is also invisible to us, notwithstanding its falling in the Day Time, and not to us only, but even to all *Europe*.

No solar Eclipses can be seen by us, here in *England*, wherein the *Moon* hath South Latitude; nay, though her Latitude be North, unless it be pretty large to counter-balance her Parallax (which is always South with us) we can have no Eclipse; which is the principal Reason why solar Eclipses are more rare than lunar Ones, in any particular Place; though, in general, the former are more frequent than the latter. This Eclipse, where central, will be a very beautiful annular One, the Breadth of the Annulus being near Half a Digit on all Sides; which Appearance happens in the Meridian about 2 Degrees North of the Equator, in Longitude East from *London* about 40 Degrees 30 Minutes, which falls on the Eastern Coast of *Ethiopia* in *Africa*. This Eclipse will be visible in the *East-Indies*, to all the small Islands in the *Indian Sea*, and in the Island of *Madagascar*.

ASTRONOMICAL REMARKS.

AN Eclipse is the fleeting Disappearance of a luminous Body, caused by the Interposition of some opaque or dark Body. Now as the Planets are suspended above one another in unequal and concentric Orbits, which cut each other in opposite Points, they naturally may at certain Times two or more of them meet in the same visual Ray, whereby the inferior Star, or Planet, will by Density deprive us for a while of the Light of the Superior. Hence 'tis evident, that besides the Eclipses of the Luminaries properly so called, or of the Sun and Moon, the other Planet both superior and inferior, and their Satellites, as also the fixed Stars are subject to Eclipses; the most remarkable of this Sort in the present Year (and they are such as seldom happen) are the following; which I have taken some Pains to exhibit to View, for the Sake of such curious Persons as Delight in contemplating the beautiful Structure, and wonderful Harmony of the celestial Bodies. The first of these Eclipses (or rather Occultations) we shall notice, is of the famous fixt Star *Aldebaran*, by the Interposition of the *Moon's* Body betwixt that fine Star and us. On *Tuesday* the 27th Day of *March*.

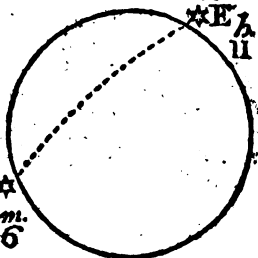
B. m. I
8 36 *



h. m. E 9 20 App. Time, where and when

the Star *Aldebaran* will again become visible on the West Side of the *Moon*.

The Second we shall mention, is a rare and notable Occultation of the Planet *Jupiter*, and his Satellites, by the *Moon*, April the 7th, betwixt Ten and Eleven at Night: At the Time of this Occultation all *Jupiter's* Satellites are visible; the First and Second towards the West from *Jupiter*; the Third and Fourth towards the East. At 6 Minutes after Ten that Night, the *Moon's* Limb first touches, and eclipses that glorious Planet *Jupiter* from our Sight, till 10 Minutes after Eleven o'Clock; the Obscuration continuing 1 Hour and 4 Minutes; the Appearance of which will be as in the adjoining Scheme. I is the



I *
B. m.
10 6

h. m. E 11 10 Place of the Star's Immersion, or where it becomes obscured by the lower Part of the *Moon's* Eastern Limb, and E is the Place of its Emission, or first Appearance again, on the West Side, or rather a little to the Right of her uppermost Point. This Eclipse of *Jupiter* will be

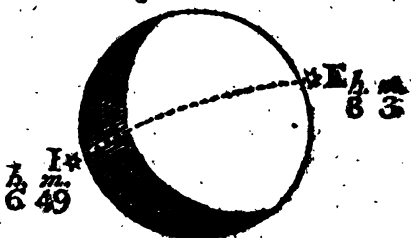
seen near the South, *Jupiter* transiting the Meridian that Night at 35 Minutes after 12. *Jupiter* is the most glorious Planet in our System, and is no less than Ninety-four Thousand Miles in Diameter; whereas, this little Globe of Earth and Water which we live upon, is not quite Eight Thousand Miles in Diameter. Hence, *Jupiter* is a large and stupendous Globe, and is undoubtedly an habitable World, or else to

What Purpose are his several Seasons, his Four Satellites or Moons, but for the Use of his Inhabitants, his Nights and Days, his Winters and Summers, his new and full Moons? all which by our Telescopes, we see and know he hath.

Yet more remote from Day's all-cheering Source,
 Large Jupiter performs his constant Course:
 Four friendly Moons, with borrow'd Lustre, rise,
 Bestow their Beams benign, and light his Skies.

The Third of these Eclipses, or rather Occultations, worthy of Note this Year, is another visible Transit of the Moon over the Star *Aldebaran*, and happens on *Tuesday* the 25th Day of *December*. The dark Edge of the Moon's Disk first touches the Star, and the Immersion takes

Place at 49 Min. after Six in the Evening, at I as in this Type thereof; the Star will be obscured from Sight for the Space of 74 Minutes, then makes its Appearance again at E. at 3 Min. after Eight o'Clock, App. Time.



Note. The Times of these Occultations, are calculated, and adapted, to the Latitude and Meridian of London, as are also the Types or Delineations of them; and though they cannot exactly, and precisely, represent the Phenomena in any other Places (particularly the Points of Contact in Respect of the Vertical Circle passing through the Moon's Centre) they will indifferently serve the whole Kingdom. At small Distances from London, as at Cambridge and Oxford, there will not be much Difference.

The Stars immersing into Obscurity, behind the dark Part of the Moon, in the first and last of these Occultations, at a considerable Distance from those Parts that appear to us, may in some Sort convince the unlearned Reader, that the Moon is a solid Globe of Matter like our Earth, and that her Increase and Decrease is not owing to an Augmentation, or Diminution, of the Matter whereof she is composed, but by her enlightening.

lightened Parts, gradually inclining to, and reclining from
this Globe of Earth whereon we dwell.

I wish it fair, that Artists may descry
These various Stars eclips'd, to verify
Their Calculations; if it chance to rain—
Or if it's cloudy, then we watch in vain :
All Truth's not known yet in Astronomy,
Why do Men carp then at Astrology ?

Judicium Astrologicum, pro Anno 1792.

Or, an Astrological Judgment on the Influence of the Planets, &c.

THIS is the 94th Year since MOORE's Almanack first entered on the public Stage of the World, and it has always given good Satisfaction to the honest well meaning Part of Mankind; as many of its Predictions, from Time to Time, have frequently come to pass. I shall now beg leave to remind the Public; and particularly amongst them, the Adversaries to Astrology, of some recent and remarkable Truths, which I have been able to predict from celestial Causes and Influx, of which I make no doubt, but many of my Readers have taken Notice. In the last Page of my Almanack for 1790, I made mention of the approaching Opposition of *Jupiter* and *Saturn*; and in my last page 43, you was informed that two more of these Oppositions would take Place in the Course of that Year; the 1st happened the 7th of *December* 1790; and the next the 22d of *January* 1791; during which Time, they kept nearly in the same Part of the Heavens, and near the Equinoctial Points. In Page 44 of my last, after reciting several Particulars relating to these remarkable Oppositions, I observed that seldom did they happen without producing "some epidemical Distemper, as also Heats and Excesses in the State of the Air or Earth; as high Winds, Hurricanes, dark Air, lasting Rains, as well as violent Storms, pernicious Hail, Floods and Inundations, &c. Lightnings, Thunder, and the like." How terrible in various Parts of this Kingdom (as well as in some others) was the Truth of this Prediction fulfilled; for what unusual Storms, what violent Winds, what Lightnings, what Thunder,

PROGNOSTICATIONS.

ders, what Floods and Inundations, in divers Places a Parts of this Nation ! But I need not particularize, for ev one must remember the Truth of these Things. — It is wort of Remark, that as soon as the first Opposition of th Planets took Place, in a few Days after, followed th violent Excesses in the State of the Air, and so continued different Times until the Second of these Oppositions w past, which happened the 22d of *January*. But I must n hasten to other Particulars ; and first, I shall give you Hieroglyphick alluding to these Times.



Having noticed in my last these remarkable Oppositions *Jupiter* and *Saturn*, I have now to inform you, that t Opposition is again twice renewed during the Course of t present Year, viz. on *May* the 2d, and *September* the 13 the former from *V* and *♄*, and the latter from *♃* and *♄* these Configurations by being so often repeated, do certain signify many and very remarkable Accidents and Mutatio to happen in the World, the Effects of which (more or le will not totally subside for several Years ; but I would be understood, that these Excesses in the State of the A will be exactly repeated again as before at these Oppositio that we hope and expect will not be the Case with us, beca these Oppositions are made in another Part of the Heave

and the last, in different Signs of the Zodiac; but yet, they are Aspects of the same Influx and Force, though not exactly in the same Way. And I am verily persuaded, that the Almighty God of all Principalities and Powers, by his infinite Wisdom and all-seeing Providence, hath intended and proposed, and by these his glorious and powerful Instruments declares and pre-signifies such notable Accidents and Transitions, such unexpected Commotions and various Mutations, to happen to many of the principal Kingdoms and Nations in the World; for the Affairs thereof seem to be in a Hurry and Confusion; and to be acted by such a Ferment as is not usual; their Passions and Fury rise higher, and the ill Success of the Advocates of Power and Tyranny, is an Encouragement to the Friends of Liberty (both civil and religious) to go on.—In the Eastern Parts of the World, a Nation or Country is near being swallowed up more fatally than *Jonas* in the Whale's Belly; the *Turks* are eminently pointed at by these celestial Messengers; War and Desolation has already invaded their Territories; the *Ottoman* Empire must be weakened, and Antichrist must be destroyed; *France* and *Italy*, more especially *Lorraine* and *Naples*, will meet with new Troubles; new Troubles and Misfortunes arise in the North; the King of *P*—— will suffer either by Sickness or some other Calamity; but however, he will gain some military Honours and Advantages this Year. A great General stoops to Fate, Death alone convinces us that all Men are Vanity. Some Losses or Misfortunes seem to threaten *Portugal*; and *Spain* is not past the Vortex of ill Fortune, one Loss comes upon the Back of another, which at last brings her to Reason, and will pave the Way to Liberty. Here now follows one of *Micahel Nostradamus's* Prophecies, which is fulfilling now or near these Times:

Sur ceste gauche à l'endroit de Vity,
Servent quatre les trois Rouges de France;
Tous assommez Rouge, noir non meurdry,
Par les Bretons remis en Assurants.

English:

On the left Hand over against Vity,
For three Red Ones of France shall be wounded for;
All the Red shall be knocked dead, the Black not murther'd;
By Bretons put up again in Security.

A. N. N. O.

ANNOTATIONS.

What is meant here by the three Red Ones of *France* is hard to decide, whether they be Cardinals or Judges; because both wear commonly scarlet Gowns, or some Nobleman clothed in Scarlet; but it seemeth by this, that there shall be a lying in wait for four Men, three of which shall be clothed in Red, and one in Black; those in Red shall be knocked down dead, but he in Black shall not, and this is to be done on the left Hand, over against Vitry, which is, I expect, a City in *Champaigne*.

Observations upon the planetary Influx at the Time of the Sun's apparent Ingress into the Equinoctial and Tropical Signs, for this present Year of our Lord 1792.

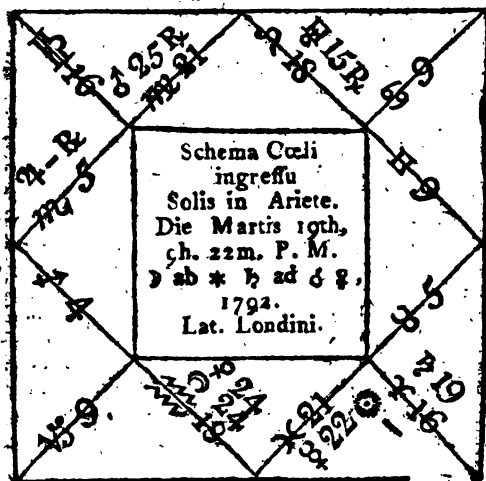
Of the WINTER QUARTER.

THIS Quarter takes its Beginning at such Time as the glorious Lamp of Heaven, the *Sun*, touches the first Point of *Capricorn*, which falls on the 21st of *December* 1791, at 46 Minutes past Seven at Night. I begin this Quarter because most of it happens after the new Almanacks come out, and continues till the 19th Day of *March* following. At this Ingress we have 28 Degrees of *Aries* on the Mid-heaven, and 16 Degrees of *Leo* on the Eastern Finiter. The \odot is in the 4th House, in the 11th Degree of MR , and very nearly in \odot with J , and S of J , the Planets are all under the Earth, except M ; that Planet being in the 9th House, and but just past the Meridian. We must not flatter ourselves that this will be a Time of much Cessation from Troubles, some farther Undertaking will be first attempted, and various Convulsions and Revolutions of State remains yet to be produced before that desirable Time comes; however, at present, the Councils and Designs of the Grandees of *Europe* are very close and impenetrable; but this, we may be assured of, that they are consulting and concerting such Ways and Means, as will in all Probability expedite and hasten some important Particulars. There appears to be a Concurrence of astrological and prophetic Signs of some remarkable Catastrophe to befall some foreign Countries, I think it may be *Spain*, or the Pope's Territories in *Italy*; I do not wonder, if the Prosperity and Fate of those

two Nations, should go Hand in Hand, as their Horoscopes are of the same Triplicity, as that whatever affects the one may affect the other also by Sympathy; *Spain* is the eldest Son of the Church, the Prop and Stay of the papal Power; she will hold out as long as possible, and, with all her Might, endeavour to stop the Progress of religious and civil Liberty!

Of the SPRING QUARTER.

THE Revolutions of the Years of the World, are usually accounted to take their Initiation at the Time of the Sun's Ingress into the first Point of *Aries*, which happens according to my Tables, on *Monday* the 19th of *March*, at 22 Minutes past 9 at Night, at which Time 5 Degrees of *Scorpio* ascends, and 18 Degrees of *Leo* culminates. I have delineated the following Scheme of the Heavens as they appear at the Moment of Time before-mentioned; from which Position one would think, that at this Time the public Affairs of *Europe* should be in a more quiet and settled Posture than they were in during the last Year, as some of the celestial Configurations are of an healing Nature. But I am afraid, that this is something like a Calm before a Storm, for on the 2d of *May*, in this Quarter, we shall find a pestilent Opposition of the two grand Infortunes, which I take in



be the Conception of some eminent Matters; there are several Cabals, and private Negotiations carrying on in several Courts of Europe; in France, or some where in that Quarter, there is likely to follow some Disturbances amongst the Heads of the Church, which may lead to new Discoveries in the Annals of popish Superstition, which the People on the Continent seem inclined to shake off, with the Shackles of Slavery, Misery, and Want. In fine, here is every Prospect, from the Disposition of the Significators in this Scheme, that some very important Event will happen in the Politics of France.

ENGLAND, I am happy to say, has every Prospect of Harmony and Peace; and is likely, from the Strength and Elevation of her Significators, to give Peace and Prosperity to her Allies. She will be looked up to from the Belligerent Powers, to interpose her potent Arm (if not already finished) to bring about a Restoration of Peace amongst them, and to awe, with her Thunder those who aspire to extend their Dominion by the Ravages of War and Bloodshed.

Of the SUMMER QUARTER.

THIS Quarter commences when the Sun touches the first Point of Cancer, which this Year happens on June the 20th, at 19 Minutes after Seven in the Afternoon, when 21 Degrees of Libra is culminating, and 18 Degrees of Sagittarius ascends; the Moon is in the 7th House, at 6 O, et 11, and 14. In order to give a proper Judgment of this Ingress, it is necessary also to look back to the late Opposition of the two great Superiors, Jupiter and Saturn, under whose Influence and influx we yet labour; and rather because it has been so often repeated, &c. which looks very threatening, especially as the two last Oppositions were from the cardinal Signs, Aries and Libra. Aries is the Ascendant of England, Germany, Denmark, Naples, &c. Libra is the Ascendant of France, Austria, Livonia, Vienna, Lisbon, &c. I am afraid, this cannot be a Year of such universal Tranquility in the World, as might be wished for: the Protestants in Germany, and some other Places too, labour under Difficulties.

Of the AUTUMNAL QUARTER.

THIS Quarter begins on *Saturday* the 22d Day of *September*, at 4 Minute past Nine in the Morning, when 2 Degrees of ♊ is Orient, and 13 Degrees of ♋ is culminant; the ♌ is in the 2d ab ♍ , ad ♎ , and ♏ has just past another 8 of ♌ from ♍ and ♊ , the rest of the *Satellitium* considered, makes this a very active and busy Quarter also; great Rumours from foreign Countries; *Mars* the *English* Patron in ♍ on the Cusp of the Ascendant, near to the Planet *Jupiter*, denotes some Honour and Renown to the *English* Nation, by the great Application to her Monarch, for his Assistance and Protection.

F I N I S

Merlinus Liberatus.

BEING-AN

ALMANACK

For the Year of our Redemption,
1792,

Being BISSEXTILE, OR LEAP-YEAR;
And from the Creation of the World, according
to the best History, 5739,
And the 103d of our Deliverance by *K. William*
From Popery and Arbitrary Government;
But the 97th from the
Horrid, Popish, Jacobite Plot.

Wherein are contained all Things fitting and useful for such a Work; as
an Ephemeris of the daily Motions of the Planets, with their various
Configurations, Aspects, Conjunctions, Lunations, Eclipses, Astrono-
mical, Astrological, Meteorological Observations, the Rising and Setting
of the Sun, Moon, Planets, and fixed Stars, illustrated with Tables of
the Tides, Terms, and daily Equation of Clocks, Length and Break,
Increase and Decrease of Days, Semidiurnal and Seminocturnal Arches
for several Latitudes, a Chronology, Remarks on the Divisions of the
Heavens, with Judgments of the Eclipses and Seasons, handled ac-
cording to the Rules of the Ptolomean Astrology, with many other
Things relating to the Truth of Astrology. And will equally serve
also for either *Parker's* or *Saunders's* Almanack, as it contains most
of the useful Parts of those other two Works, and *White's* Ephe-
meris contains the rest,

Calculated for the Meridian of LONDON.

By **JOHN PARTRIDGE.**

— *Etiam Mortuus loquitur* 92

L O N D O N.

Printed for the Company of STATIONERS;
And Sold by *Robert Horsfield*, at their Hall, in *Ludgate Street*.

[Price stitched Ten Pence.]

A Table of the Common Notes, and Moveable Feasts, for the Year of our Lord 1792.

Golden Number - - 7	Easter Sunday - April 8
Epact - - - - - 6	Rogation Sunday May 13
Dominical Letter - A G	Ascension Day - May 17
Cycle of the Sun - - 9	Whit Sunday - May 27
Roman Indiction - - 10	Trinity Sunday - June 3
Number of Direction - 19	Sundays after Trinity - 25
Sundays after Epiphany 4	Advent Sunday - Dec. 2
Septuagesima Sund. Feb. 5	Year of the Julian Per. 6497
1st Wednesday, Feb. 22	Year of the Dionysian - 116

A Table of the 12 Signs, 7 Planets, and Aspects.

♈ Aries, <i>Head and Face.</i>	♄ Saturn.
♉ Taurus, <i>Neck and Throat.</i>	♃ Jupiter.
♊ Gemini, <i>Arms and Shoulders.</i>	♂ Mars.
♋ Cancer, <i>Breast and Stomach.</i>	☉ Sol, or the Sun.
♌ Leo, <i>Heart and Back.</i>	♀ Venus.
♍ Virgo, <i>Bowels and Belly.</i>	☿ Mercury.
♎ Libra, <i>Reins and Loins.</i>	♌ Luna, the Moon.
♏ Scorpio, <i>Secret Members.</i>	♉ Dragon's Head.
♐ Sagittarius, <i>Hips and Thighs.</i>	♏ Dragon's Tail.
♑ Capricorn, <i>Knees and Hams.</i>	☊ Part of Fortune.
♒ Aquarius, <i>Legs and Ancles.</i>	♁ Tellus, or Earth.
♓ Pisces, <i>Feet and Toes.</i>	

♌ Conjunction, *In one Sign and Degree.*

* Sextile, *is 2 Signs, or 60 Degrees.*

□ Square or Quartile, *is 3 Signs, or 90 Degrees.*

△ Trine, *is 4 Signs, or 120 Degrees.*

♌ Opposition, *is 6 Signs, or 180 Degrees.*

♈ ♌ ♐ Hot and dry, Fiery	♏ ♒ ♓ Cold & dry, Earthy
♊ ♎ ♍ Hot and moist, Airy	♋ ♑ ♉ Cold & moist, Watery
♈ ♌ ♐ Diur. Mascul.	♏ ♒ ♓ Noct. Femin.
♊ ♎ ♍ Cardinal & Movea.	♋ ♑ ♉ Fixed Signs
♈ ♌ ♐ Common Signs	♋ ♑ ♉ Fruitful Signs
♊ ♎ ♍ are Barren	♋ ♑ ♉ Bicornporeal

Kings Names. Reigns began.
 William Conq Oct. 14, 1066
 William Rufus Sept. 9, 1087
 Henry 1. - Aug. 2, 1100
 Stephen - - Dec. 1, 1135
 Henry 2. Rosam. Oct. 25, 1154
 Richard 1. - July 6, 1189
 John - - - April 6, 1199
 Henry 3. - Oct. 19, 1216
 Edward 1. - Nov. 16, 1272
 Edward 2. - July 7, 1307
 Edward 3. - Jan. 25, 1327
 Ric. 2. W. Tyler June 21, 1377
 Henry 4. - - Sept. 29, 1399
 Henry 5. - Mar. 20, 1413
 Henry 6. - - Aug. 31, 1422
 Ed. 4. J. Shore Mar. 4, 1461
 Edward 5. - April 9, 1483
 Richard 3. - June 22, 1483
 Henry 7. - - Aug. 22, 1485
 Henry 8. - Apr. 22, 1509
 Edward 6. - Jan. 28, 1547
 Mary 1. - - July 6, 1553
 Elizabeth - Nov. 17, 1558
 James 1. - - Mar. 24, 1603
 Charles 1. - Mar. 27, 1625
 Charles 2. - Jan. 30, 1649
 James 2. - - Feb. 6, 1685
 Will. 3. & M. 2. Feb. 13, 1689
 Anne - - - Mar. 8, 1702
 George 1. - Aug. 1, 1714
 George 2. - June 11, 1727
 George 3. - Oct. 25, 1760

*The direct Lineal Descent of
 His Majesty K. George III.*

Henry II. K. of England, had
 Maud mar. Hen. the Lion, D
 of Bavaria and Saxony, had
 Wil. of Lun. mar. Helena, D.
 of Worldemer, K. of Den. had
 Otbo D. of Brunf. and Lunen

_____ had _____
 Albert the Great D. of Brunf.

_____ had _____
 Albert the Fat D. of Brunf.

_____ had _____
 Magnus D. of Brunswick

_____ had _____
 Mag. Torquat. D. of Bru & Lun.

_____ had _____
 Bernard D. of Brun. & Lun.

_____ had _____
 Frederick Duke of Lunenb.

_____ had _____
 Otbo the Great D. of Lunenb.

_____ had _____
 Henry Duke of Lunen. had

Ernest Duke of Lunenb. had
 Wil. D. of Lunen. Zel. had

Elizabeth, mar. Fred. K. of
 Bohemia, had Geo. P. of Cal-

lenbar and D. of Hanover,
 had Sophia, mar. Ernest Au-

gustus Bishop of Osnaburgh,
 and Elector of Brunswick

Lunenburgh, had George, by
 the Grace of God, King of

Great-Britain, &c. who had
 George II. who had Fred. Pr.

of Wales, who had George III.
 his present Majesty, whom

God preserve.

A Table of the Moon's Age for every Day throughout the Year 1792, whereby, with the Help of the next General Tide Table, the Time of High Water at all the Places mentioned above it, are shewn by Inspection.

An Explanation of this and the following Table:

First find the Month on the Head of the Table, and the Day in the first Column on the left Hand, and in the Angle of meeting you have the Day of the Moon's Age, with which enter the following Table, and find your said Number in the left Hand Column, and over against it in the other Column is the Time of High Water at all the Places above mentioned, by Inspection. — *Example, Jan. 1st* I find the Moon to be 7 Days old, and over against 7 in the 1st Column I find 8 h. 36 m. in the 2d Column 7 h. 6 m. in the 3d; which are the Times of High Water at all those Places mentioned above in the 2d and 3d Columns. *Et sic de ceteris.*

Month	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
December.	1	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
November.	1	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
October.	1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
September.	1	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
August.	1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14
July.	1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13
June.	1	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13
May.	1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11
April.	1	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11
March.	1	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9
February.	1	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8	9	10
January.	1	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	N	1	2	3	4	5	6	7	8

TIDE TABLE.

A general Tide-Table, shewing the Time of High Water
at all the Places herein mentioned, viz.

Enter this Col. with the Moon's Age, and over against it you have the Time of High Water at the Places following.		<i>Lond Tim. Hartl. Amster. Dort, Whitby, Galacia, Gasc.</i>		<i>West of Irel. Brittain at Groin, Roterd. and Robin H. Bay.</i>		<i>Downs, Graves. Ramk. Guerns. Runn. Thanet, Scilly half</i>		<i>Tide, Senny H. Zenn at Blacken N. Cape, bet. Cal. and Dov.</i>		<i>Plym. Ramf Sev. Humb. Foy, Torb Newc. Falm. Dartm.</i>		<i>Lizard, St. Maloes, at the Spurn, betw. Scilly and the Lix.</i>		<i>Hull, Lynn, Weym Fojd. Antw. St. Dav. Holmes of Bristol,</i>		<i>Lund. St. Paul's Salcom, without Ussant, Waterf. half Tide</i>		<i>Boston, Bristol, Foulm Startp. Lanion. Alstor. Weym. Key,</i>		<i>Lime, before St. Nicholas, Sedmouth in the Channell, Foy.</i>		<i>Dover, Harw. Bullein. Yarm Road, Calice Road, St. John</i>		<i>de Luca, S Forel, St. Helens, Coast of Norm. and Picardy.</i>		<i>Portf. Quimb. Southa. Leith. Isle of Wight, Dunk. Kentish</i>		<i>Knock, Beachy, Canado, C. of Fland. Spiers Dover Pier.</i>		<i>Portl. Peter-port, Hague, Dubl. Harf. Lambay, Magnus,</i>		<i>Sound, Comb without the Casquets, Macnefs, Milford, Texel</i>		
Days	Age	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	16	3	48	2	18	6	3	6	48	7	33	11	18	12	48	9	3	11	18	12	48	9	3	11	18	12	48	9	3	11	18	12	48	
2	17	4	36	3	6	6	51	7	36	8	21	12	6	1	36	9	51	8	21	12	6	1	36	9	51	8	21	12	6	1	36	9	51	
3	18	5	24	3	54	7	39	8	24	9	9	12	54	2	24	10	39	9	9	12	54	2	24	10	39	9	9	12	54	2	24	10	39	
4	19	6	12	4	42	8	27	9	12	10	0	10	0	3	12	11	27	10	0	10	0	3	12	11	27	10	0	10	0	3	12	11	27	
5	20	7	0	5	30	9	15	10	0	11	36	11	36	4	6	12	15	11	36	11	36	4	6	12	15	11	36	11	36	4	6	12	15	
6	21	7	48	6	18	10	3	10	48	11	33	12	21	5	36	1	9	12	21	5	36	1	9	12	21	5	36	1	9	12	21	5	36	
7	22	8	36	7	6	10	51	11	36	12	24	1	9	6	24	2	45	1	9	6	24	2	45	1	9	6	24	2	45	1	9	6	24	
8	23	9	24	7	54	11	39	12	24	1	9	1	57	7	12	2	45	1	9	7	12	2	45	1	9	7	12	2	45	1	9	7	12	
9	24	10	12	8	42	12	27	1	12	2	0	2	0	8	0	3	33	2	0	8	0	3	33	2	0	8	0	3	33	2	0	8	0	3
10	25	11	0	9	30	1	15	2	0	3	33	3	33	9	18	4	21	3	33	9	18	4	21	3	33	9	18	4	21	3	33	9	18	
11	26	11	48	10	18	2	3	2	48	4	24	4	24	10	54	5	9	4	24	10	54	5	9	4	24	10	54	5	9	4	24	10	54	
12	27	12	36	11	6	2	51	3	36	5	12	5	12	11	42	6	45	5	12	11	42	6	45	5	12	11	42	6	45	5	12	11	42	
13	28	1	24	11	54	3	39	4	27	6	0	6	0	12	30	7	18	6	0	12	30	7	18	6	0	12	30	7	18	6	0	12	30	
14	29	2	12	12	42	4	27	5	12	7	3	7	3	13	6	8	6	7	3	13	6	8	6	7	3	13	6	8	6	7	3	13	6	8
15	30	3	0	1	30	5	15	6	0	8	45	8	45	14	12	9	30	8	45	14	12	9	30	8	45	14	12	9	30	8	45	14	12	

ROYAL FAMILY, &c.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1752	Prince Adolph. Fred. Feb. 24, 1774
Prince Frederick, Aug. 16, 1763	Princess Mary, April 25, - 1776
Prince Wm. Henry, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Prs. Cha. Aug. Mat. Sept. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 8, 1768	Prs. Augusta of Brun. Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1721	

SOVEREIGNS of EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Russia	Catharine II.	May 2, 1729	July 9, 1762
Spain	Charles IV.	Nov. 11, 1748	Dec. 1788
Portugal	Mary	Dec. 7, 1714	Feb. 24, 1777
Prussia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus III.	Jan. 24, 1746	Feb. 13, 1771
Germany	Leo old	May. 5, 1747	Feb. 20, 1790
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Papedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the COINS, with the LEAST WEIGHT allowed to pass of the Gold Coin.

Wt. allowed.			Full Wt.		SILVER.			Full Wt.	
GOLD.	dwt.	gr.	dwt.	gr.				dwt.	gr.
Guinea -	5	8	5	9 ²⁰ / ₃₂	A Crown, -	-	-	19	8 ¹⁶ / ₃₂
Half Guinea, 2	16		2	16 ⁶⁴ / ₃₂	Half Crown, -	-	-	9	16 ⁸ / ₃₂
Quarter Guin. 1	8		1	8 ³² / ₃₂	Shilling, -	-	-	3	20 ²⁸ / ₃₂
					Six Pence, -	-	-	1	22 ¹⁴ / ₃₂

According to the above proportions it appears, that the value of a *lb.* of silver is 62s. or 31. 2s. and of a *lb.* of gold is 44¹/₂ guineas, or 46l. 14s. 6d. Also that the *oz.* of silver is 5s. 2d. and the *oz.* of gold 31. 17s. 10¹/₂d. So that the value of the standard gold is 15 times that of the silver, and 14th more.

The LAW and UNIVERSITY TERMS.

A TABLE of TERMS and RETURNS for 1792

Hilary Term begins January 23, ends February 13.

Returns or Effoign Days.		Exc.	Ret.	App.	W.L
In eight Days of St. Hilary, - -	January 20	21	22	23	<i>Mond</i>
In fifteen Days of St. Hilary, - -	- - 27	28	29	30	<i>Mond.</i>
On the Morrow of the Purif. of bl. V. M. Feb. 3		4	5	6	<i>Mond.</i>
In eight Days of the Purif. of bl. V. Mary, 9		10	11	13	<i>Mond.</i>

Easter Term begins April 25, ends May 21.

In 15 Days of Easter, - - -	April 22	23	24	25	<i>Wedn.</i>
From the Day of Easter in 3 Weeks, - -	29	30	1	2	<i>Wedn.</i>
From the Day of Easter in 1 Month, May 6		7	8	9	<i>Wedn.</i>
From the Day of Easter in 5 Weeks, - -	13	14	15	16	<i>Wedn.</i>
On the Morrow of the Ascension, - - -	18	19	20	21	<i>Mond.</i>

Trinity Term begins June 8, ends June 27.

On the Morrow of the holy Trinity, June 4	5	6	8	<i>Frida</i>
In eight Days of the holy Trinity, - -	10	11	12	<i>Wedn.</i>
In fifteen Days of the holy Trinity, - -	17	18	19	<i>Wedn.</i>
From the Day of the holy Trinity in 3 Weeks, 24	25	26	27	<i>Wedn.</i>

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls, - - -	Nov. 3	4	5	6	<i>Tuesd.</i>
On the Morrow of St. Martin, - - -	12	13	14	15	<i>Tburf.</i>
In eight Days of St. Martin, - - -	18	19	20	21	<i>Wedn.</i>
In fifteen Days of St. Martin, - - -	25	26	27	28	<i>Wedn.</i>

N. B. No Sittings in *Westminster-Hall* on the 2d of February, *Ascension Day*, and *Midsummer Day*.

The Exchequer opens Eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, That the first and last Days of every Term, are the first and last Days of Appearance.

OXFORD and CAMBRIDGE TERMS.

OXFORD TERMS.

Lent Term - -	begins January 14,	- -	ends Mar. 31.
Easter Term -	begins April 18,	- -	ends May 24.
Trinity Term -	begins July 6,	- -	ends July 14.
Michaelmas Term,	begins October 10	- -	ends Dec. 17.

The Act is July 9.

CAMBRIDGE TERMS.

Lent Term - -	begins January 13,	- -	ends Mar. 30.
Easter Term -	begins April 18,	- -	ends July 6.
Michaelmas Term	begins October 10,	- -	ends Dec. 16.

The Commencement will be July 3.

January hath XXXI Days.

What Realm with Britain can compare?
 What Foes affright with panic Fear?
 Let History boast of Greece or Rome,
 Heroes as great we boast at home;
 The Roman Eagle had her Day,
 The British Lion still bears Sway.

M	h	u	D	M
D	r	u	8	I
1	12	29	u	
6	13	29	8	
11	13	m	7	I
16	13	o	7	I
21	13	1	7	
26	14	1	7	

M	W	Sundays and	long	long.	♂	♀	☿	Aspects and		
D	D	Remark. Days.	°	'	°	'	°	Weather.		
1	A	1 S. aft. Christ.	10	53	14	33	29	24	0	Circumcision
2	M	Sun rises 8. 4.	11	55	26	52	29	25	1	Dark and
3	T	Sun sets 3. 56.	12	56	8	56	29	26	2	☐ ☉ h
4	W		13	57	20	52	u	27	3	thick air,
5	T	Old Christ. day	14	58	2	43	0	28	4	with rain
6	F	Epiphany. Twelfth-D.	14	34	0	1	4			or sleet.
7	S		17	0	26	26	1	0	5	* ♂ ♀
8	A	1 S. after Epiph.	18	2	8	22	1	1	5	Lucian.
9	M	Plough Monday	19	3	20	23	1	3	R	Still
10	T		20	4	2	31	2	4	5	wet
11	W		21	5	14	45	2	5	5	and
12	T	Old N. Yrs. Day	22	6	27	8	2	6	4	variable
13	F	Camb. Term b.	23	7	9	40	2	7	4	St. Hilary.
14	S	Oxf. T. beg.	24	8	22	24	3	8	3	weather.
15	A	2 S. after Epiph.	25	9	5	22	3	9	2	
16	M		26	10	18	38	3	10	1	☐ u ♀, ☉ ☿
17	T	Old Twelfth D.	27	12	2	13	3	11	u	Cold
18	W	Q. Ch. b. d. k.	28	13	16	10	3	12	28	Prisca.
19	T		29	14	0	30	4	13	27	△ h ♀
20	F	Fabian	0	u	15	15	4	15	25	☐ ☉ u
21	S	Agnes	1	16	0	5	4	16	24	sharp frost,
22	A	3 S. after Epiph.	2	17	15	8	4	17	23	Vincent
23	M	Term begins.	3	18	0	u	4	18	22	perhaps
24	T		4	19	14	58	4	19	21	snow.
25	W	Conv. St. Paul	5	20	29	27	5	20	21	
26	T	Sun rises 7. 37.	6	21	13	30	5	21	20	More
27	F	Pr. Aug. Fr. b.	7	22	27	5	5	23	20	mild,
28	S	Sun sets 4. 26.	8	23	10	12	5	24	19	but turns to
29	A	4 S. after Epiph.	9	24	22	55	5	25	19	frost or
30	M	K. Char. I. mart.	10	25	5	17	5	26	D	snow.
31	T		11	26	17	24	5	27	19	

Partridge. January, 1792. 9

M	Jupiter	Venus	Full Moon
D	South	South	9th Day at 9 Morning.
1	7m 1	8m 43	Full Moon 9th Day at 9 Morning.
6	6 45	8 42	Last Quarter 17th Day at 2 Morning.
11	6 21	8 43	New Moon 23d Day at 5 Afternoon.
16	6 2	8 44	First Quarter 30th Day at 11 Night.
21	5 42	8 46	1st Day h So. 6a 1, d 5m 13, s 1a 23.
26	5 23	8 49	16th Day h So. 4 58, d 4 22, s 0 15.

M	Lunar Aspects.						Clock	Moon	Drises	Observations.	
D	☉	☿	♈	♀	♄		bef. ☉	South	& sets		
A							4 2	6a18	morn	The heavens declare	
1			8		☐		4 30	7 3	1 4	the glory of God; and	
3	Δ						4 58	7 48	2 7	the firmament shew-	
4				Δ	8		5 26	8 33	3 9	eth his handy work,	
5		*			Δ		5 52	9 19	4 7	Pf. xix. 1.	
6							6 19	10 5	5 4	A good old verse	
7			Δ	☐			6 45	10 52	5 55	which used to appear	
A	8	☐					7 10	11 39	6 42	in the sheet Alma-	
9	21		☐	*			7 35	morn	7 1	dr snacks, seems to me	
10		Δ			Δ	8	8 0	0 26	5a46	to be a paraphrase	
11							8 24	1 13	6 49	of the above, viz.	
12			*		☐		8 47	1 59	7 52	The Heav'n's a book, the	
13							9 10	2 45	8 59	stars are letters fair;	
14	Δ			6	Δ		9 32	3 31	10 6	God is the writer, men	
A	8			18	*		9 53	4 17	11 16	the readers are.	
16	☐		6		☐	10	10 14	5 4	morn	Here is a sentence	
17			21			10	10 34	5 54	0 29	which points out to	
18	*				*	10	10 53	6 47	1 42	every Diarian his	
19		Δ		*	6	11	11 12	7 42	2 54	proper task.	
20					23	11	11 30	8 40	4 5	10 Arch-bp. Laud	
21		☐	*	☐		11	11 47	9 41	5 10	beheaded 1645	
A					6	12	12 3	10 42	5 sets	11 Sir Hans Sloan	
23	6	*	☐	Δ		12	12 19	11 42	4a32	died 1752	
24	5			*		12	12 34	0a40	5 47	15 Pondicherry	
25			Δ			12	12 48	1 34	7 3	surrendered 1760	
26				☐	*	13	1 2	2 26	8 18	17 Bat. of Falkirk 1746	
27	*			8		13	13	3 15	9 29	20 First Parliam. 1265	
28		6				13	13 25	4 2	10 38	24 A great fire at	
A		7	8		Δ	13	13 36	4 48	11 44	the Custom-h. 1715	
30	☐					13	13 46	5 34	morn	28 Hen. VIII. died 1595	
31				Δ		13	13 55	6 20	0 50	29 Christian VII.	
										K. of Denm. b. 1746	
										31 Guy Faux ex. 1606	

Thy Golden Mountains boast, O Spain,
 While Britons boast they rule the Main;
 While Commerce home our treasure brings
 Commerce (that laughs at Tyrant Kings)
 Shall to our British Isle attend,
 And find in Royal George a Friend.

M	D	1	2	3
1	14	1	1	1
6	15	1	1	6
11	15	1	1	6
16	16	2	5	5
21	16	1	5	5
26	17	1	5	5

V.	W	Sundays and	☉ long	☽ long	♂	♀	☿	Aspects and	
D	D	Remark. Days.	°	'	°	'	°	Weather.	
1	W		12	26	29	8	21	5 28 19	Sharp
2	T	Purif. Candl. D.	13	27	11	11	13	5 29 20	winds,
3	F	Blase	14	28	23	4	5	19 20	* ♀
4	S		15	29	4	58	5	2 21	but rather
5	A	Septua. Agatha	16	30	16	58	5	3 21	fair.
6	M		17	30	29	6	5	4 22	
7	T	Sun rises 7. 17.	18	31	11	12	24	5 5 23	☐ ♂ ♀
8	W		19	32	23	53	5	6 24	Some
9	T	Sun sets 4. 47.	20	32	6	32	5	8 25	rain
10	F		21	33	19	23	5	9 25	or snow,
11	S		22	34	2	25	5	10 26	and
12	A	Sexages. Sund.	23	34	15	39	5	11 27	very cold.
13	M	Hil. Term ends	24	35	29	6	5	12 29	Old Candlem.
14	T	Valentine.	25	35	12	46	5	13	
15	W		26	36	26	41	5	15 1	☐ ♀, ☐ ♂
16	T	Sun rises 7. 0.	27	36	10	49	5	16 2	
17	F	Sun sets 5. 2.	28	37	25	10	4	17 3	Still cold
18	S		29	37	9	40	4	18 4	☐ ♂ ♀
19	A	Shrove Sunday	0	38	24	15	4	19 6	and
20	M	Cam. T. divides	1	38	8	49	4	20 7	variable.
21	T	Shrove Tuesday	2	39	23	15	4	22 8	
22	W	Ash Wednesday	3	39	7	27	4	23 10	More
23	T		4	39	21	19	3	24 11	fair
24	F	St. Matthias	5	39	4	49	3	25 12	Pr. A. Fred.
25	S		6	40	17	57	3	26 14	but very
26	A	Quad. 1. S. in L.	7	40	0	42	3	28 15	cold air.
27	M	Sun rises 6. 39.	8	40	13	8	2	29 17	* ♀
28	T	Sun sets 5. 23.	9	41	25	19	2	18	
29	W	Ember Week	10	41	7	19	2	1 20	☐ ♀, Δ ♂

JUPITER will be a Morning Star till April 15; then an Evening Star till November 31; and after that a Morning Star to the end.

Partridge. February, 1792. 11

M	Jupiter	Venus
D	South.	South.
1	5 m 0	8 m 53
6	4 40	8 59
11	4 21	9 4
16	4 2	9 10
21	3 43	9 15
26	3 23	9 21

Full Moon 8th Day at 3 Morning.
 Last Quarter 15th Day at Noon.
 New Moon 22 Day at 5 Morning.
 First Quarter 29th Day at 7 Night.
 1st Day $\frac{1}{2}$ So. 3^h 56, δ 3^m 26, η 10^m 22.
 16th D. $\frac{1}{2}$ So 3 2, δ 2 24, η 10 18.

M	Lunar	A. pecc.	Clock	Moon	Drise	Observations.
D	☉	☿	♈	♀	♄	
1						When a new
2	Δ	*				mode is pursued, a
3			Δ	8		proper apology is
4		□				required: But in
A				8		giving in every
6		□	*			month, an account
7	8	Δ				of the occurrences
8	15	*				which have happen-
9				Δ		ed in years past, is
10				Δ		only an old method
11			♄	□		revived by desire of
A	Δ	8	4	□		our correspondents,
13		♄				and we hope will
14	□	4	*			be accepted as an
15			*	*		improvement in this
16		Δ				performance.
17	*	*	□			
18		□		♄		4 Martinico sur. 1762
A			□	Δ	12	6 Cha. II. died 1685
20	*				21	11 London Bridge
21	♄	Δ				burnt 1632
22	17					12 Lady Jane Grey
23			8	*		beheaded 1554
24	♄			*		16 Sir J. Oldcastle
25	21					burnt 1418
A	*	8		□		18 Q. Mary behe. 1587
27				□		22 Quaker's affir-
28			Δ			mation accep. 1702
29	□	*		Δ		24 Earl Derwent-
						water behead. 1716
						25 Sir Chr. Wren
						died 1723

Venus will be a Morning Star till August the 6th; and afterwards she will be an Evening Star to the end of the year.

12 March hath XXXI Days.

Lewis thy Fate I pity much;
 Yet needs must own 'tis only such
 Thou well deserv'st; else, why thy Aid,
 When thou our Foes much stronger made
 In Indies West; say, what had we
 Done to deserve all this of thee?

M	h	u	D
D	Y	m	8
1	17	1	1
6	18	1	5
11	18	1	4
16	19	0	4
21	19	1	4
26	20	29	3

26/20/29 3

M	W	Sundays and	☉ long	☽ long	♂	♀	☿	Aspects and
D	D	Remark. Days.	°	°	h	m	s	Weather.
1	T	David.	11	41	19	11	12	1 2 21
2	F	Chad.	12	41	1	20	5	1 3 23
3	S		13	41	13	0	1	5 24
4	G	2 Sund. in Lent	14	41	25	2	1	6 26
5	M	Sun rises 6. 25	15	41	7	16	0	7 27
6	T		16	41	19	42	17	8 29
7	W	Perpetua.	17	41	2	24	29	9 3
8	T		18	40	15	21	29	11 2
9	F	Sun sets 5. 43.	19	40	28	33	29	12 4
10	S		20	40	12	0	28	13 5
11	G	3 Sund. in Lent	21	40	25	39	28	14 7
12	M	Gregory	22	40	9	30	28	15 9
13	T		23	39	23	29	27	17 11
14	W	Sun rises 6. 7.	24	39	7	35	27	18 12
15	T		25	39	21	45	26	19 14
16	F		26	38	5	58	26	20 16
17	S	St. Patrick	27	38	20	11	26	21 18
18	G	4 Sund. in Lent	28	37	4	21	25	23 20
19	M		29	37	18	25	25	24 21
20	T	Sun sets 6. 5.	0	36	2	21	25	25 23
21	W	Benedict	1	36	16	5	24	26 25
22	T		2	35	29	35	24	27 27
23	F	Sun rises 5. 49	3	35	12	50	23	29 29
24	S		4	34	25	47	23	3 3
25	G	5 Sund. in L. Lady-D	5	33	8	27	23	1 3
26	M		6	33	20	52	22	2 5
27	T		7	32	3	3	22	4 7
28	W	Sun sets 6. 19	8	31	15	4	22	5 9
29	T		9	30	26	59	21	6 11
30	F	Camb. T. ends	10	29	8	51	21	7 13
31	S	Oxf. T. ends	11	28	20	47	21	8 15

Bleak winds,
with
gloomy air
or rain.

△ 4 ☿

Now more
mild and
temperate
for some
time.

* ½ ☿

8 ☉ ☿

Changes to
Edw. K. W. S.

8 ☿ ☿

wet and
cold
weather.

△ 4 ☿

More
favourable

8 ☉ ☿

for the
latter
seed time.

8 ½ ☿

Bleak winds,
 with
 gloomy air
 or rain.

Now more
 mild and
 temperate
 for some
 time.

Changes to
 Edw. K. W. S.

wet and
 cold
 weather.

More
 favourable
 for the
 latter
 seed time.

M	Jupiter	Venus	Partridge.	March, 1792.	13
D	South	South			
1	3m 7	9m 26	Fall Moon 8th Day at 7 Afternoon.		
6	2 47	9 31	Last Quarter 15th Day at 7 Afternoon.		
11	2 27	9 36	New Moon 22d Day at 6 Afternoon.		
16	2 7	9 42	First Quarter 30th Day at 4 Afternoon.		
21	1 47	9 47	1st Day h So. 2 a 13, δ 1 m 21, ♀ 10 m 45		
26	1 28	9 53	16th Day h So. 1 24, δ 0 6, ♀ 11 25		

M	Lunar Aspects.						Clock	Moon	Rise	Observations.
D	☉	☿	♊	♈	♉	♊	bef. ☉	South	& sets	
1						Δ	12 30	6a35	1m33	If any object to this
2			Δ	□			12 17	7 22	2 24	plan, that by how
3	Δ	□					12 4	8 10	3 10	much of the page is
G			□	*	8		11 50	8 58	3 52	taken up in the
5		Δ					11 35	9 45	4 29	Chronological line,
6			*			8	11 21	10 33	5 0	by so much are they
7							11 6	11 21	5 30	robbed of <i>Astral</i> Ob-
8	8						10 50	morn	D rise	servations; our an-
9	7			δ			10 34	0 9	6a53	swer is, that shrewd
10		8		0	Δ		10 18	0 58	8 0	conjecture lies in a
G			δ		Δ		10 2	1 48	9 19	very little compass,
12			8		□		9 45	2 40	10 32	and truth in less;
13	Δ			*			9 28	3 34	11 44	and it is our wish
14		Δ		*	□		9 11	4 29	morn	to make this per-
15	□		*	□			8 54	5 26	0 53	formance as useful
16		□			*		8 36	6 24	1 54	and amaking as pos-
17	*		□	Δ			8 18	7 22	2 44	sible.
G							8 0	8 19	3 34	
19		*	Δ		δ		7 42	9 14	4 12	4 Hen. VI. depos. 1461
20					10		7 24	10 7	4 45	5 First appear. of
21				8	δ		7 6	10 58	5 15	the Nor. lights 1710
22	δ				21		6 47	11 47	D sets	8 K. W. III. died 1702
23	6	δ					6 29	0a37	7a14	9 Rizzio murd. 1566
24		13	8	*			6 10	1 24	8a22	10 Act for build. 50
G							5 52	2 12	9 28	new churches 1710
26				Δ			5 33	3 0	10 31	14 Adm. Byng shot 1757
27	*			□	*		5 15	3 48	11 30	18 Amer. Stamp
28		*		□			4 56	4 35	morn	Act repealed 1766
29			Δ		Δ		4 38	5 22	0 23	24 Q. Eliz. died. 1603
30	□				□		4 19	6 10	1 11	27 James I. died 1625
31		□	□	*			4 1	6 58	1 54	28 Tobac. brought
										to England 1583
										30 Fred. Pr. of W.
										died 1753

Now view thyself; what art thou made?
 Merely the shadow of a shade.
 Say will thy Senators now please
 Only to meet and sign decrees
 That with thy haughty Pride shall suit,
 To give a legal Sanction t'ot?

M	D	W	Th	F	S
1	21	28	3	10	17
6	24	28	3	10	17
11	22	27	3	10	17
16	23	27	2	9	16
21	23	26	2	9	16
26	24	25	2	9	16

M	W	Sundays and	⊙ long	☽ long	♂	♀	☿	Aspects and
D	D	Remark. Days	°	'	°	'	°	Weather.
1	G	Palm Sunday	12	27	2	49	20 10 17	Windy
2	M	Sun rises 5. 30.	13	26	15	3	20 11 19	♂ ♀
3	T	Richard. Bp.	14	25	27	33	20 12 22	and cold
4	W	St. Ambrose	15	24	10	22	19 13 24	weather.
5	T	Maundy Thurs.	16	23	23	31	19 14 26	O. Lady Day
6	F	Good Friday	17	22	7	1	19 16 28	8 ♀
7	S		18	21	20	50	19 17 8	
8	G	Easter-Day	19	20	4	57	18 18 2	8 ♂ ♀
9	M	Easter-Monday	20	19	19	17	18 19 4	
10	T	Easter-Tuesday	21	17	3	44	18 20 5	Still cold
11	W		22	16	18	12	18 22 7	with rain
12	T	Sun sets 6. 50.	23	15	2	38	17 23 9	or
13	F		24	13	16	56	17 24 11	flect.
14	S		25	12	1	4	17 25 13	
15	G	Low Sunday	26	11	15	0	17 26 14	8 ☉ ♀
16	M	Sun rises 5. 3.	27	9	28	43	17 28 16	Δ ♂ ♀
17	T		28	8	12	14	17 29 17	
18	W	Oxf. & C. T. b.	29	6	25	31	17 19	More mild
19	T	Alphege	0	8	5	8	17 1	and
20	F		1	3	21	29	16 3	seasonable
21	S	Sun sets 7. 7.	2	2	4	8	16 4	weather.
22	G	2 Sund. af East.	3	0	16	38	16 5	
23	M	St. George	3	58	28	50	16 6	Variable
24	T		4	57	11	11	16 7	with
25	W	St. Mark. Term begins.	23	2	16	9	26	Prs. Mary b.
26	T		6	53	4	56	16 10	flying
27	F	Sun rises 4. 42.	7	52	16	48	16 11	clouds,
28	S		8	50	28	42	16 12	and
29	G	3 S. aft. Easter	9	48	10	42	16 13	some
30	M	Sun sets 7. 23.	10	46	22	54	16 15	wet.

	Jupiter	Venus
	South	South
1	1 m 4	10 m 0
6	0 42	10 4
11	0 21	10 8
16	11 2 59	10 12
11	11 38	10 16
16	11 16	10 21

Full Moon 7th Day at 7 Morning.
 Last Quarter 14th Day at 1 Morning.
 New Moon 21st Day at 8 Morning.
 First Quarter 29th Day at 10 Morning.
 1st Day h So. 0a 33, d 10a 41, e 0a 20.
 16th D. h So. 11m 44, d 8 58, e 1 9.

Lunar Aspects.						Clock Moon		Drise		Observations.
D	☉	☿	♈	♉	♊	h. m.	South	& sets.		
G	Δ					3 42	7 24 5	2 m 32		<i>I said I will look into my ways, that I offend not with my tongue.</i>
2		Δ			Δ	3 24	8 32	3 6		
3			*			3 6	9 19	3 37		
4				♋	8	2 48	10 7	4 5		We will now take a view of the Cœlestial Aspects, and although we pretend not to enter into the Arcana of Divine Wisdom, or to see so clearly into futurity as many vain pretenders yearly do, to the great discredit of an ancient and noble science: Yet as far as the rules of art admit, by their configurations, we will endeavour to guess at their portents.
5				17		2 30	10 56	4 31		
6	8					2 13	11 46	4 58		
7	19	8	♋		8	1 55	morn	5 24		8 Edw. IV. died 1483 W. & M. cro. 1689 Händel died 1759 Batt. of Cull. 1746 Hen. VII. died 1509 Shakesp. died 1616 Dunkirk dem. 1714 Bat. Fontenoy 1745
G			12	*		1 38	0 39	8 24		
9					Δ	1 21	1 33	9 34		
10				□		1 5	2 30	10 51		
11	Δ	Δ	*		□	0 48	3 28	11 56		
12					Δ	0 32	4 27	morn		
13	□	□	□	Δ	*	0 17	5 26	0 53		
14					□	0 1	6 23	1 43		
G	*	*	Δ			0a 13	7 18	2 23		
16						0 28	8 10	2 56		
17				8	*	0 42	9 1	3 26		
18					♋	0 56	9 50	3 53		
19					9	1 9	10 38	4 19		
20	♋	♋	8			1 22	11 25	4 47		
21	20	3				1 34	0a 12	5 25		
G				Δ	♋	1 46	1 0	8 25		
23					14	1 58	1 47	9 25		
24				□	*	2 9	2 35	10 22		
25		*	Δ			2 19	3 23	11 13		
26	*				□	2 29	4 10	11 58		
27		□	□	*	*	2 39	4 57	morn		
28	□					2 48	5 44	0 37		
G					Δ	2 56	6 31	1 12		
30		Δ	*		□	3 5	7 17	1 43		

Ah, Lewis, what a Change of State !
 Repentance comes, but comes too late ;
 By Subjects rul'd, curs'd with a Crown,
 Thy Pride fall'n like thy Bastile down ;
 Yet gen'rous Britons, Lewis, do
 Pity Distress ev'n in a Foe.

D	☿	♈	♉
1	24	25	♈
6	25	24	I
11	26	24	I
16	26	23	I
21	27	23	O
26	27	22	O

M	W	Sundays and	☉ long	☽ long.	♂	♀	♂	Aspects and
D	D	Remark. Days.	°	'	°	'	°	Weather.
1	T	St. Phil. & Jam.	11	8 44	5	22 23	16 16 29	Cool winds,
2	W		12	42 18	11	16 17 29	8 12 4	8 12 4
3	T	Invent. Cross	13	40 1	24	17 18 29	bringing	bringing
4	F		14	38 15	2	17 20 18	some rain.	some rain.
5	S	Sun rises 4. 28.	15	36 27	7	17 21 29		
6	G	4 Sun. aft. East.	16	34 13	34	17 22 29	J, Ev. A.P.L.	J, Ev. A.P.L.
7	M		17	32 28	18	17 23 29	8 12 8	8 12 8
8	T	Sun sets 7. 37.	18	30 13	12	17 24 28		
9	W		19	28 28	7	17 26 28	Still showery,	Still showery,
10	T	Sun rises 4. 20.	20	26 12	54	17 27 28	6 12 8	6 12 8
11	F		21	24 27	27	18 28 27	and	and
12	S	Old May Day	22	21 11	42	18 29 27	changeable	changeable
13	G	Rogat. Sund.	23	19 25	36	18 8 26	weather.	weather.
14	M		24	17 9	11	18 2 26		
15	T	Sun sets 7. 47	25	15 22	26	18 3 25	6 10 8	6 10 8
16	W		26	13 5	26	19 4 24		
17	T	Ascen. Holy Th.	27	10 18	12	19 5 24	More fine	More fine
18	F		28	8 0	8 45	19 7 23	and	and
19	S	Q. Charl. b.	29	6 13	9	19 8 23	Dunstan	Dunstan
20	G	Sund. aft. Asc.	0 II	3 25	24	19 9 22	pleasant	pleasant
21	M	Easter Ter. ends	1	1 7	31	20 10 22	weather	weather
22	T	Prs. Eliz. b.	1	59 19	32	20 11 21	now.	now.
23	W	un rises 4. 2	2	56 1	28	20 13 21		
24	T	oxf. T. ends	3	54 13	20	21 14 21	Δ 8 8	Δ 8 8
25	F		4	51 25	11	21 15 20	Still fine	Still fine
26	S	Augustine	5	49 7	12	21 16 20	and pleasant	and pleasant
27	G	Whit Sund. Ca.	T. div.	19	3 21	18 20	Ven. Bede	Ven. Bede
28	M	Whit Monday	7	44 1	13	22 19 20	to the	to the
29	T	Whit Tuesday	8	41 13	38	22 20 20	K. Ch. II. rest	K. Ch. II. rest
30	W	Ember Week	9	39 26	23	22 21 21	end.	end.
31	T	Sun sets 8. 7	10	36 9	32	23 22 21	Δ 8 8	Δ 8 8

M D	Jupiter South	Venus South	Partridge, May, 1792.	17
1	10 a 55	10 24	Full Moon 6th Day at 5 Afternoon.	
6	10 34	10 27	Last Quarter, 13th Day at 8 Morning.	
11	10 15	10 31	New Moon 20th Day at 10 Night.	
16	9 52	10 34	First Quarter 29th Day at 2 Morning.	
21	9 31	10 38	1st Day $\frac{1}{2}$ S. 10m56, δ 8 a 34 δ 1 a 7.	
26	9 8	10 41	16th D. $\frac{1}{2}$ S. 9 30, δ 7 11 δ 1, 1m54.	

M D	Lunar Aspects.						Clock aft. ☉	Moon South	Drises & sets	Observations.
	☉	☿	♂	♀	♂	♀				
1	Δ		♂				3 12	8a 3	2m 12	
2			20		Δ		3 19	8 51	2 38	
3							3 26	9 40	3 5	<i>I will behold the heavens the works of thy fingers, the moon and the stars which thou hast ordained. Ps. viii. 3</i>
4		8	♂		8		3 32	10 31	3 32	
5			16				3 37	11 24	4 0	
G 6	8		*				3 42	morn.	Drises	
7		5				8	3 46	0 21	8a 38	
8		Δ	*	□	Δ		3 50	1 20	9 48	
9							3 53	2 20	10 51	<i>If, in the course of the last year, we have seen nations contending, and have read of the devastations of war: we foretold a busy year; and a busy year we have found it. We yet foresee much controversy and strife, and are in expectation of better news than we shall perhaps hear.</i>
10	Δ	□	□	Δ			3 56	3 21	11 43	
11				□	Δ		3 57	4 20	morn.	
12	□	*	Δ				3 59	5 17	0 27	
G 13				*	□		4 0	6 11	1 4	
14			8				4 0	7 2	1 34	
15	*				*		3 59	7 51	2 1	
16							3 58	8 38	2 28	
17		♂	8				3 56	9 25	2 55	
18		16		♂	♂		3 54	10 11	3 20	
19			Δ	13	♂		3 51	10 57	3 48	
G 20	♂				17		3 48	11 44	Drises	
21	10						3 44	0a 31	8a 16	
22		*	Δ	□			3 40	1 19	9 9	
23							3 35	2 7	9 57	1. Dryden died 1700
24			□	*	*	*	3 30	2 54	10 38	4. Hen. IV. mur. 1610
25	*	□					3 24	3 40	11 14	14. Ann Bulleyn b. [1504
26				□			3 17	4 26	11 47	17. D. of Maribrough died 1722
G 27	Δ	*			□		3 10	5 11	morn.	19. Battle of La Hogue 1692
28	□			♂	Δ	Δ	3 3	5 56	0 14	
29				♂			2 55	6 42	0 40	27. Calvin died 1554
30			16				2 47	7 29	1 5	
31	Δ		♂				2 39	8 17	1 22	

M	h	24	1
D	8	2	88
1	1	22	112
6	1	22	28
11	1	22	28
16	2	23	28
21	2	23	27
26	2	24	27

It may be (*Philip*) Mexico
 And rich Peru may learn to know
 The rights of men, and rise though late,
 Their father's wrongs to vindicate;
 Punish for wealth the tyrant's lust,
 And Spain be humbled in the dust.

M	W	Sundays and	long	long	♂	♀	♂	Mutual Aspects
D	D	Remark. Days.	o	o	♂	♀	♂	And Weather.
1	G	4 S. aft. Trin.	10 2 12	0 1 22	6	0	29	* 1/2 ♀, * 1/2 ♀
2	M	Visitation	11 9	15 17	6	1	20	♂ ♀ ♀
3	T	Camb. Com. Dogd. b.	12 3	0 1 29	7	3	3	
4	W	Tran. St. Mart.	13 3	15 49	7	4	6	Variable
5	T	O. Midsum. D.	14 1	1 6	8	5	8	□ ♂ ♀
6	F	Cam. T. ends	14 58	16 7	8	6	10	weather.
7	S	Thos. a Becket	15 55	0 1 46	9	8	12	
8	G	5 S. aft. Trinity	16 52	14 57	9	9	14	□ ♂ ♀
9	M	Oxford Aft	17 49	28 39	10	10	16	Cold winds,
10	T		18 47	11 55	10	11	18	♂ ☉ ♀
11	W	☉ rises 3 53	19 44	24 46	11	13	21	with rain
12	T	☉ sets 8 6	20 41	7 8 18	11	14	23	□ 1/4 ♀
13	F		21 38	19 35	12	15	25	at times.
14	S	Oxf. Ter. ends	22 35	1 1 41	13	16	27	□ ☉ 1/4
15	G	6 S. aft. Trin. Swith.	13 39	13 17	29			
16	M		24 30	25 33	14	19	10	□ 1/2 ♀
17	T	☉ rises 4 0	25 27	7 24	14	20	3	
18	W	☉ sets 7 59	26 25	19 16	15	21	5	Close, thick
19	T		27 22	1 9	15	22	7	□ 1/4 ♀
20	F	Margaret	28 19	13 6	16	24	9	air with
21	S		29 17	25 7	16	25	11	thunder and
22	G	7 S. aft. Trin. Magd.	7 15	17 26	13			lightning.
23	M		1 11	19 33	18	27	15	
24	T		2 9	2 2	18	29	17	□ ☉ 1/2
25	W	St. James	3 6	14 48	19	18		* ♂ ♀
26	T	St. Anne	4 3	27 52	19	1	20	Variable
27	F	☉ rises 4 13	5 1	11 20	20	1	22	□ 1/2 ♀
28	S		5 58	25 12	20	2	24	* 1/4 ♀
29	G	8 S. aft. Trin.	6 55	9 30	21	4	25	towards
30	M		7 53	24 11	22	5	27	the end
31	T	☉ sets 7 41	8 50	9 10	22	6	29	

M	Jupiter	Venus	Partridge, July 1792.		21
D	South	South			
1	6a 37	11m 17	Full Moon 4th Day at 7 Morning.		
6	6 17	11 23	Last Quarter 11th Day at 2 Morning.		
11	5 58	11 29	New Moon 19th Day at 4 Morning.		
16	5 39	11 35	First Quarter 26th Day at midnight.		
21	5 21	11 41	1st Day $\frac{1}{2}$ S. 7m 14, δ 5a 36, γ 11m 12		
26	5 3	11 48	16th Day $\frac{1}{2}$ S. 5 34, δ 4 44, γ 0a 29.		

M	Lunar Aspects.						Clock	Moon	riser	Observations.
D	☉	☿	♈	♀	♊	☽	bef. ☉	South	& sets.	
G			*				3 29	9 a 36	1 m 29	<i>Is there not an appointed time for man upon earth; are not his days also like the days of an hireling? Job.</i>
2		*					3 40	10 36	2 14	
3	8	Δ	□	8	8		3 51	11 39	3 6	
4	19	□					4 2	morn.	☽ rises	
5		□	Δ			8	4 12	0 41	8 a 50	
6			Δ				4 22	1 41	9 28	<i>Death (about this time) lays his iron hand upon some person of eminence, while detraction strikes her harpy claws into the character of some lady of distinction. Five malevolent aspects, succeeding each other, forebode to the world no good, and the five celestial wanderers being concerned therein, bespeak, in my conception, a general confusion.</i>
7		*		Δ	Δ		4 31	2 38	10 1	
G	Δ						4 40	3 32	10 29	
9			8				4 49	4 23	10 56	
10	□		8	□	□		4 57	5 12	11 23	
11	♊						5 5	5 59	11 49	
12	12			*			5 13	6 45	morn.	
13	*				*		5 20	7 31	0 16	
14			Δ				5 26	8 17	0 48	
G		Δ					5 32	9 4	1 22	
16		*					5 38	9 51	2 3	
17			□				5 43	10 39	2 50	
18	♊		□	♊			5 48	11 26	3 40	
19	16	□		1	♊		5 52	0 a 12	☽ sets	
20		*	*			14	5 56	0 58	8 a 14	
21		Δ					5 59	1 44	8 43	
G							6 1	2 29	9 9	
23				*			6 3	3 13	9 34	4. Therebel. beg. 1745 6. Hen. II. died 1189 Edw. VI. died 1553 Sir T. Mooreb. 1535 7. Edw. I. died 1307 9. Czar Peter mur. 1762 13. Pea. of Utrecht 1713 17. Cape Bretona. 1745 24. Gibraltar tak. 1704 29 Sp. Armadade. 158
24	*						6 4	3 58	9 57	
25		♊	♊	*			6 4	4 44	10 22	
26	□	8	17	8	□		6 4	5 33	10 52	
27					□		6 4	6 25	11 24	
28	Δ			Δ			6 2	7 20	morn.	
G			*				6 0	8 17	0 3	
30		Δ	*		Δ		5 58	9 17	0 50	
31			□				5 59	10 19	1 44	

M	h	4	D
D	8	2	8
1	2	29	m
6	2	m	25
11	1	1	25
16	1	2	24
21	1	3	24
26	1	4	24

From Tyrant's rod our isle is free,
 This is the land of Liberty:
 Justice with Mercy by it's side,
 Extends it's influence far and wide,
 To ev'ry state, to ev'ry door
 Of young or old, or rich or poor.

M	W	Sundays and	long	long	♂	♀	☿	Mutual Aspects
D	D	Remark. Days.	o	o	m	m	2	And Weather.
1	S	Giles Abbot	9m39	17	14	12	17	3
2	G	3 S. a. 1 ^r Lon.	b. 1666	1	24	13	18	3
3	M		11 35	15	11	13	19	R
4	T	☉ rises 5 22	12 33	28	35	14	20	4
5	W		13 32	11	8	35	15	22
6	T		14 30	24	13	15	23	3
7	F	Enurchus.	15 28	6	11	34	16	24
8	S	Nat. B. V. M.	16 27	18	41	17	25	2
9	G	14 S. aft. Trin.	17 25	0	38	17	27	2
10	M		18 23	12	30	18	28	1
11	T	☉ sets 6 25	19 22	24	22	19	2	1
12	W		20 20	6	18	20	0	m
13	T		21 19	18	20	20	2	29
14	F		22 17	0	m	32	21	3
15	S	☉ rises 5 43.	23 16	12	57	22	4	27
16	G	15 S. aft. Trin.	24 15	25	34	22	5	26
17	M	Lambert.	25 13	8	25	23	7	25
18	T		26 12	21	31	24	8	24
19	W	Ember week.	27 11	4	m	50	24	9
20	T	☉ sets 6 7	28 10	18	22	25	10	22
21	F	St. Mattheu	29 8	2	†	6	26	12
22	S	K. G. III. crow	0 2	7	16	2	26	13
23	G	16 S. aft. Trin.	1 6	0	v	7	27	14
24	M	☉ rises 6 1	2 5	14	19	28	15	19
25	T	Holy Cross	3 4	28	38	28	17	19
26	W	St. Cyprian	4 3	12	59	29	18	D
27	T		5 2	27	19	†	19	19
28	F	☉ sets 5 52	6 1	11	†	33	1	20
29	S	St. Mich. Prs	R. b.	25	39	1	22	20
30	G	17 S. aft. Trin.	Jero.	9	†	31	2	23

Moderate
 and favoura-
 ble wea-
 ther

Brisk winds,
 with smart
 showers of
 rain.

8 h 4

Mild and
 ☉ ☿
 * ♂ ♀
 seasonable
 weather.

Gloomy
 and cold,
 but little or
 no rain.

M D	Jupiter South	Venus South	Partidge, September 1792. 25	
1	3 a 4	o a 28	Last Quarter 8th Day at 7 Morning.	
6	2 49	o 33	New Moon 16th Day at 9 Morning.	
11	2 34	o 38	First Quarter 23d Day at 2 Afternoon.	
16	2 20	o 43	Full Moon 30th Day at 9 Morning.	
21	2 6	o 48	1st Day ½ S. 3m 19, ♂ 3a 53, ♀ 1a 21.	
26	1 52	o 52	16th D. ½ S. 1 45, ♂ 3 31, ♀ o o.	

M D	Lunar Aspects.					Clock aft. ☉	Moon South	☾ rises & sets	Observations.
1	☉	h	☿	♀	♂	o 30	om o	Drises	'Tis justly observ'd by the Poet,
G						o 49	o 54	7a30	
3						1 8	1 46	7 58	
4		♂	8			1 28	2 36	8 26	From private fluids; what
5	Δ	6		8	Δ	1 48	3 25	8 57	dire misfortune flow;
6					Δ	2 8	4 14	9 30	What e'er the cause, the
7	□					2 28	5 2	10 8	sure, effect is woe.
8					□	2 49	5 51	10 51	The truth of this, every family can bear testimony to. How
G	*	Δ			□	3 9	6 39	11 38	
10	*		Δ	*	*	3 30	7 26	morn.	
11		□	□	*	*	3 50	8 14	o 30	much yet more terri-
12						4 11	9 0	1 26	ble is it when dissen-
13				□		4 32	9 47	2 26	tion like a plague, with
14		Δ	*			4 53	10 33	3 28	its constant attendance
15	♂		*			5 14	11 19	4 33	Rapine and Bloodshed
G	21			♂	♂	5 35	o a 5	sets	spreads over a whole
17					22	5 56	o 52	6a44	kingdom. This may
18		8	♂			6 16	1 41	7 12	be read in the history
19			19			6 37	2 31	7 42	of the Anarchy and con-
20	*		♂	*	*	6 58	3 23	8 16	fusion which once over-
21			12	*		7 19	4 17	8 57	clouded these British
22					□	7 40	5 13	9 44	isles; and now appear
G	□	Δ	*			8 0	6 11	10 42	in the Weekly Annals
24					Δ	8 21	7 9	11 45	of a neighbouring na-
25	Δ	□	□	*		8 41	8 7	morn.	tion.
26					Δ	9 1	9 3	o 57	3. Cromwell died 1658 5. Bp. Bonner di. 1769 8. Geo. III. and Char. wedded 1761
27	*	Δ	□			9 21	9 58	2 11	
28					8	9 41	10 51	3 28	
29	8		Δ			10 0	11 42	4 43	10. Wm. Con. di. 1087
G	21					10 19	morn.	5 59	16. Geo. I. land. 1714
									21. Ed. II. murd. 1327
									25. Geo. II. died 1760
									29. Rich. II. depo. 1399

From Britain superstition flies,
 While truth descending from the skies,
 Illuminates our happy shore,
 And ancient error is no more:
 Oh still on us bright goddess shine,
 And bless us with thy rays divine.

M	h	4	D
D	8	m	88
1	0	5	m
6	9	6	23
11	29	7	23
16	29	8	23
21	29	9	22
26	28	10	22

M	W	Sundays and	☉ long.	☽ long.	♂	♀	☿	Mutual Aspects
D	D	Remark. Days.	o	o	♂	♀	☿	And Weather.
1	M	Remigius	8 ^h 58	23 ^h 7	3	24	21	
2	T		9 57	6 25	3	25	22	<i>Wet, raw,</i>
3	W	☉ rises 6 18	10 56	19 22	4	27	23	<i>and un-</i>
4	T	☉ sets 5 40	11 55	2 11	5	28	24	<i>settled</i>
5	F		12 55	14 23	6	m	25	<i>weather,</i>
6	S	Faith	13 54	26 32	6	0	27	8 h ♀
7	G	18 S. aft. Trin.	14 53	8 30	7	1	28	
8	M		15 53	20 22	8	3	29	
9	P	St. Denys	16 52	2 14	8	4	1	<i>More mild</i>
10	W	Ox. & Cam. T. b.	O. M. d.	14 16	9	5	3	<i>and tempe-</i>
11	T		18 51	26 15	10	6	4	6 4 ♀
12	F	☉ rises 6 36	19 50	8 m 32	11	8	6	<i>perate.</i>
13	S	Trans. Ed. Conf.	20 50	21 6	11	9	5	
14	G	19 S. aft. Trin.	21 50	3 58	13	10	9	
15	M		22 49	17 10	13	11	11	<i>Blustering</i>
16	T	☉ sets 5 16	23 49	0 m 40	13	13	13	<i>and wet</i>
17	W	Etheldred	24 49	14 26	14	14	14	* ♂ ☿
18	T	St. Luke	25 48	28 26	15	15	16	<i>weather.</i>
19	F		26 48	12 35	16	16	18	
20	S	☉ rises 6 51	27 48	26 50	16	18	19	
21	G	20 S. aft. Trin.	28 48	11 5	17	19	21	8 ☉ h
22	M		29 47	25 17	18	20	23	
23	T	☉ Sets 5 3	0 m 47	9 26	19	21	24	<i>sometimes</i>
24	W		1 47	23 29	19	23	26	<i>frosty and</i>
25	T	K. Geo. III acc.	Crisp	7 24	20	24	28	8 h ☿
26	F	K. G. III. proc.	3 47	21 12	21	25	29	<i>sometimes</i>
27	S		4 47	4 50	22	26	m	
28	G	21 S. aft. Trin.	S. & Ju	18 18	22	28	3	<i>cold</i>
29	M		6 47	1 33	23	29	4	<i>frosts.</i>
30	T	☉ rises 7 10	7 47	14 35	24	1	6	
31	W	☉ sets 4 48	8 47	27 23	25	1	8	

M	Jupiter	Venus	Partridge, October, 1792.		27
D	South	South			
1	1 a 38	o a 57	Last Quarter 8th Day at 2 Morning.		
6	1 23	1 2	New Moon 15th Day at 11 Night.		
11	1 59	1 8	First Quarter 22d Day at 8 Night		
16	o 54	1 13	Full Moon 29th Day at 10 Night		
21	o 40	1 19	1st Day h S. 1m 26, ♂ 3 a 28, ♀ 10 m 56.		
26	o 26	1 24	16th D. h S. 11 a 41, ♂ 3 13, ♀ 11 22,		

M	Lunar Aspects.						Clock	Moon	(rites	Observations.
D	☉	☿	♂	♀	♂	♀	aft. ☉	South	& sets	
1		♂	8		8		10 38	om 33	Drises	The clashing interests of various communities, the jealous watch over each other's actions, the misinterpretations as well as misrepresentation of both designs and actions, together with the pride and arrogance of despotism will spur the fiery Mars, and the thundering Bellona to deeds inimical: the East is still unsettled, and many things yet unlooked for, you may depend upon it shall happen in the West; and some in these our days.
2		13					10 57	1 23	7a 4	
3						Δ	11 15	2 13	7 37	
4	Δ			8			11 33	3 2	8 13	
5							11 51	3 51	8 53	
6		*	Δ		Δ	□	12 8	4 40	9 38	
G 8	□					*	12 24	5 28	10 29	
9		□		Δ	□		12 41	6 16	11 23	
10	*	Δ					12 56	7 3	morn.	
11			*		*		13 12	7 49	o 22	
12							13 27	8 35	1 23	4. New riv. brought to London 1614 5. Old Parr died etat. 152. 1635 8. Ad. Benbow di. 1702 16. Bish. Lat. & Rid. burned 1555 19. K. John died 1216 20. Adm. Batchen cast away 1744 22. Sir C. Shovel lost 1707 24. Bat of Agincourt 1415 25. K. Steph. di. 1154 26. Bible trans. into English 1537
13							13 41	9 20	2 27	
14							13 55	10 6	3 33	
G 15	♂	8		*	♂		14 8	10 53	4 42	
16	11		♂		♂	10	14 20	11 41	5a 50	
17			♂		2,		14 32	oa 31	5a 50	
18			14		2,		14 44	1 24	6 24	
19				♂	*		14 54	2 19	7 3	
20	*	Δ	*	5			15 5	3 15	7 49	
G 21					*	□	15 14	4 13	8 43	
22	□	□					15 23	5 11	9 45	
23		□		*	□		15 32	6 9	10 52	
24	Δ	*				Δ	15 39	7 4	morn.	
25			Δ	□			15 46	7 58	o 5	
26					Δ		15 52	8 50	1 19	
27							15 58	9 41	2 34	
G 28		8		Δ			16 3	10 30	3 48	
29	8	18	8		8		16 7	11 19	5 2	
30	10						16 10	morn.	Drises	
31					8		16 13	o 8	5a 38	
							16 14	o 57	6 11	

28 . NOVEMBER hath xxx Days.

Auspicious stars still on us shine,
 Propitious spread your rays divine,
 May faction flee where tyrants rule.
 Bred in despotism's baleful school:
 While love 'mong Britains brave and free
 Goes hand in hand with loyalty.

M	h	24	D
D	7	m	8
1	28	12	m
6	28	12	22
11	27	13	21
16	27	15	21
21	26	16	21
26	26	16	20

M	W	Sundays and	☉ long	☽ long	♂	♀	☿	Mutual Aspects
D	D	Remark. Days.	o	o	↑	↑	m	And Weather.
1	T	All Saints	9m 47	9 11 56	25	3	9	
2	F	P. Ed. bo.	All 10	22 15	26	4	11	♂ 24 ♀, ♂ ☉ ♀
3	S	Prs. Sophia b.	11 48	4 22	27	5	12	♂ ☉ 24
4	G	22 S. aft. Trin	12 48	16 19	28	6	14	Δ h ♂
5	M	Powder Plot	13 48	28 11	28	7	16	
6	T	Leonard Ter. b.	14 49	10 2	29	9	17	Cold weather,
7	W	☉ rises 7 24	15 49	21 55	29	10	19	with bluster-
8	T	Prs. Aug. S. b	16 49	3 25	30	11	21	winds.
9	F	Ld. Mayor's day	17 50	16 16	1	12	22	
10	S		18 50	28 53	2	14	24	
11	G	23 S. aft. Trin.	St. Ma	11 52	3	15	25	
12	M	Cam. T. div. m.	20 51	25 16	4	16	27	More mild
13	T	Britius	21 52	9 5	4	17	28	and tem-
14	W	☉ sets 4 24	22 52	23 17	5	19	↑	perate.
15	T	Machutus	23 53	7 45	6	20	2	
16	F		24 54	22 24	7	21	3	
17	S	Hugh Bp. Linc.	25 54	7 6	7	22	5	
18	G	24 S. aft. Trin.	26 55	21 42	8	24	6	Cold winds
19	M	☉ rises 7 43	27 55	6 9	9	25	8	and bleak
20	T	Edmund	28 56	20 21	10	26	9	Δ h ♀
21	W	☉ sets 4 14	29 57	4 19	10	27	11	frosts.
22	T	Cecilia Old Ma.	0 58	18 1	11	29	12	
23	F	St. Clement	1 58	1 30	12	29	14	
24	S	[Gl. b.	2 59	14 46	13	1	15	
25	G	25 S. aft. T. D. o	4 0	27 50	14	2	17	
26	M	☉ rises 7 52	5 1	10 43	14	4	18	Cold bluster-
27	T		6 2	23 26	15	5	20	tering winds,
28	W	Mich. Ter. ends	7 2	5 59	16	6	21	with rain
29	T	☉ sets 4 4	8 3	18 20	16	7	23	* 24 ♂
30	F	St. Andrew	9 4	2 32	17	8	24	or fleet.

M D	Jupiter South	Venus South	Partridge; November, 1792. 29	
1	0 a 8	1 a 32	Last Quarter 6th Day at 11 Night.	
6	11 m 52	1 38	New Moon 14th Day at 11 Morning.	
11	11 36	1 44	First Quarter 21st Day at 4 Morning.	
16	11 13	1 50	Full Moon 28th Day at 2 Afternoon.	
21	11 3	1 56	1st Day $\frac{1}{2}$ S. 11 a 16, δ 3 a 10, η 1 a 8.	
26	10 46	2 3	16th D. $\frac{1}{2}$ S. 9 28, δ 2 51, η 1 27.	

M D	Lunar Aspects.						Clock aft. \odot	Moon South	Rises & sets	Observations.
1							16 15	m 46	6 a 52	<p>The standard of Mahomet is not erected upon the grounds of truth, but upon the basis of error, it therefore cannot stand the test of ages, it is now falling; nor be smothered if the Turkish government falls along with it. The Pope of Rome is not that haughty despotic tyrant, which Rome once exhibited, whose Anathemas and Bulls poured terror among the princes and great men of ancient renown. That day is now past.</p> <p>1. Lisbon destroy. 1755 51. Powderplot 1605 11. Bat. of Preston 1715 13. Danes massac. 1002 16. Hen. III. died 1272 17. Q. Mary died 1694 20. Q. Caroline di. 1737 22. Porto Belle 1739 28. Car. Wolley di. 1530</p>
2	*		8				16 15	2 35	7 34	
3	Δ	Δ			Δ		16 15	3 24	8 22	
G	\square						16 13	4 12	9 15	
5				Δ			16 11	4 59	10 11	
6	\square	\square			\square		16 7	5 45	11 10	
7	Δ		Δ				16 3	6 30	morn.	
8		*		\square			15 58	7 15	0 13	
9	*				*		15 52	8 0	1 17	
10			\square				15 46	8 45	2 24	
G					*		15 38	9 32	3 33	
12	8		*				15 30	10 21	4 43	
13	δ	δ					15 20	11 13	5 56	
14	23	9			δ		15 10	0 a 7	6 sets	
15				δ	12		14 59	1 4	5 a 37	
16	Δ			21			14 47	2 3	6 33	
17		*	δ				14 35	3 3	7 34	
G	*	\square	δ	δ			14 21	4 2	8 41	
19		\square			*		14 7	4 59	9 53	
20	\square	*			*		13 52	5 53	11 7	
21		Δ	*		\square		13 36	6 45	morn.	
22				\square			13 19	7 35	0 22	
23	Δ		\square				13 2	8 24	1 35	
24		δ			Δ		12 44	9 12	2 46	
G		21		Δ			12 25	9 59	3 55	
26		8	Δ				12 5	10 47	5 3	
27							11 45	11 35	6 9	
28	8						11 24	morn.	Rises	
29	*				8		11 2	0 24	5 a 23	
30				8			10 40	1 12	6 9	

30 DECEMBER hath xxxi Days.

M	h	4	D
D	Y	M	S
1	26	18	17
6	26	19	20
11	26	20	20
16	25	21	19
21	25	22	19
26	25	23	19

But Time bids here our lay shall cease,
 Conclude we then for England's peace,
 And blessings on the royal pair
 With loyal hearts and fervent pray'r,
 May peace and plenty here remain,
 And royal GEORGE our rights maintain:

M	W	Sundays and	☉ long	☽ long	♂	♀	☿	Mutual Aspect
D	D	Remark. Days.	o	o	h	h	h	And Weather.
1	S	Advent Sunday	10 45	12 34	18	10	26	Δ h ☿
2	G		11 6	24 29	19	11	27	
3	M	Sun rises 8 o	12 7	6 18	20	12	29	<i>Rather fine</i>
4	T	Sun sets 4 o	13 8	8 7	21	13	29	<i>for the</i>
5	W		14 9	29 59	21	15	2	<i>season.</i>
6	T	Nicholas	15 10	11 59	22	16	3	
7	F		16 11	24 13	23	17	5	<i>Now more</i>
8	S	Conc. B. V. M.	17 12	6 47	24	18	6	<i>glooming</i>
9	G	3 S. in Advent	18 13	19 44	24	20	7	* 4 ♀
10	M		19 14	3 39	25	21	9	□ h ♂
11	T	☉ rises 8 5	20 15	17 4	26	22	10	<i>and shew</i>
12	W		21 16	1 27	27	23	11	<i>of rain.</i>
13	T	Lucy	22 17	16 13	28	25	12	□ h ♀
14	F	☉ sets 3 53	23 18	1 15	28	26	13	
15	S		24 20	16 22	29	27	15	
16	G	3 S. in Ad. O Sap.	C. T. e	1 23	28	28	16	
17	M	Cxf. T. ends	26 22	16 12	1	29	16	
18	T	Ember week	27 23	0 40	1	17	17	<i>Very cold,</i>
19	W		28 24	14 4	2	2	18	♂ ♂ ♀
20	T	☉ rises 8 8	29 25	28 30	3	3	18	<i>with snow</i>
21	F	St. Thomas	Sh. D.	11 53	4	4	19	<i>or. sleet.</i>
22	S		1 28	24 58	5	6	19	
23	G	4 Sun. in Advent	2 29	7 47	5	7	R	
24	M		3 30	20 24	6	8	19	
25	T	Christmas day	4 31	2 50	7	9	19	<i>Rather mil-</i>
26	W	St. Stephen	5 32	15 6	8	10	18	<i>der, but very</i>
27	T	St. John	6 34	27 15	9	2	18	<i>unsettled</i>
28	F	Holy Innocents	7 35	9 17	9	13	17	<i>towards</i>
29	S	☉ sets 3 54	8 36	21 14	10	4	16	<i>the end.</i>
30	G	Sun. aft. Christ.	9 37	3 15	11	15	14	
31	M	Silvester	10 38	14 54	12	17	13	

M D	Jupiter South	Venus South	Partridge, December 1792.	31
1	10 m 30	2 a 9	Last Quarter 6th. Day at 7 Night.	
6	10 12	2 14	New Moon 13th Day at 10 Night.	
11	9 54	2 18	First Quarter 20th Day at 2 Afternoon.	
16	9 36	2 22	Full Moon 28th Day at 8 Morning.	
21	9 18	2 26	1st Day $\frac{1}{2}$ S. 9 a 5, δ 2 a 46, γ 1 a 8.	
26	8 59	2 30	16th D. $\frac{1}{2}$ S. 7 12, δ 2 18, γ 1 28	

M D	Lunar Aspects.						Clock aft. ☉	Moon South	Drites & sets	Observations.
1							10 17	2 m 0	6 a 59	<p>The year concludes with such aspects that upon the whole forebode but little good. The favourable ones may easily be interpreted into flattering confederacies, and the malignant ones into open dissensions. The only way in this vile age to make peace the cement of nations, is so to unite their interests, that whatever afflicts the one shall dewiment the other; but this piece of policy being what the stars have never taught, lies out of the astrologer's way.</p> <p>1. Henr. I. died 1135 2. Mar. comp. inv 1300 4. 130 sail of Dutch ships taken 1664 12. Cromwell made protector 1653 29. T. Becket mu. 1171 30 Royal Society instituted. 1660.</p>
G	☐	△	♂				9 53	2 47	7 54	
3	△						9 29	3 33	8 52	
4	△	☐					9 4	4 18	9 52	
5						△	8 39	5 2	10 53	
6	☐	*	△	△			8 13	5 46	11 58	
7						☐	7 47	6 30	morn.	
8	*						7 20	7 15	1 5	
G	8		☐	☐			6 52	8 1	2 13	
10					*		6 25	8 50	3 22	
11		♂	*	*			5 57	9 42	4 35	
12		5					5 28	10 37	5 48	
13	♂	△					4 59	11 35	D sets	
14	19				♂		4 30	0 a 36	5 a 5	
15	☐	*	♂	♂	20		4 0	1 37	6 11	
G			22	18			3 31	2 37	7 24	
17	*	*	☐				3 1	3 35	8 40	
18							2 31	4 29	9 57	
19		△			*		2 1	5 21	11 11	
20	☐		*	*			1 31	6 10	morn.	
21					☐		1 1	6 58	0 25	
22	△	♂	☐	☐			0 31	7 45	1 35	
G		1			△		0 1	7 32	2 42	
24		8					obef. 29	9 19	3 47	
25			△	△			0 59	10 7	4 50	
26	*						1 29	10 55	5 50	
27	8						1 58	11 43	6 45	
28	20				8		2 27	morn.	Drites	
29	☐	△					2 56	0 30	5 a 32	
G			8				3 25	1 16	6 28	
31	△	☐		8			3 54	2 1	7 27	

A Compendious Chronology of the most principal Epochs and *Æras*, with their Beginnings, reduced and fixed to the Years of the Julian Period, the Creation of the World, and to the Years before and after Christ.

	Julian Period	Anno Mundi	Ante Christ.
T HE Creation of the World after } the Jews - - - }	952	1	3760
The Common Epocha of the Creation	765	1	3950
The same by the Greek Emperors -	787	1	3926
The same in Mr. Bedford's Scripture Chronology - - -	706	1	4007
The same in Bishop Usher's Annals -	710	1	4004
The Deluge, or Noah's Flood -	2362	1657	2351
Porphyrius's Caldaic Epocha -	2480	1717	2200
The Assyrian Monarchy by Nimrod -	2665	1960	2048
The Birth of Abraham - -	2714	2009	1999
Joseph sold into Egypt - - -	2986	2281	1728
The Israelites 400 Years Servitude in Egypt	2819	2114	1894
The Kingdom of Argos founded by Inachus	2857	2152	1856
The Birth of Moses - - -	3143	2438	1571
The Kingd. of Athens founded by Cecrops	3157	2452	1556
The Israelites Departure out of Egypt	3219	2514	1494
Their Entrance into Canaan, or the Jubilee	3258	2553	1459
The Destruction of Troy - -	3530	2825	1183
The first sabbatical Year - -	3260	2557	1455
The Jewish High Priesthood -	3300	2603	1405
The Reign of King David - -	3646	2941	1067
The Foundation of Solomon's Temple	3698	2993	1015
The Varronian Epocha - - -	3960	3197	811
The Catonian Epocha - - -	3961	3198	810
The Epocha of Nabonassar - -	3966	3261	747
The Olympiads - - - -	3938	3233	775
The Building of Rome - - -	3962	3257	751
The Destruction of the Kingdom of Israel	3992	3287	721
The Beginning of Nebuchadonosor -	4105	3300	708
The Babylonish Captivity - -	4108	3302	706
The Destruction of Solomon's Temple	4126	3421	587

	Julian Period	Anno Mund	Anno Christi
Daniel delivered from the Den of Lions	4176	3470	538
The Temple of Jerusalem rebuilt -	4198	3488	520
Cyrus the Founder of the Persian Monarchy	4178	3472	536
The Regifugium Epocha - - - -	4205	3500	508
The Battle at Marathon - - - -	4223	3517	491
Xerxes's Defeat at the Battle of Salamis	4234	3528	480
The Beginning of the Peloponnesian War	4281	3575	433
Meto the Athenian began his Circle -	4282	3576	432
Daniel's 70 Weeks of Years began -	4269	3564	444
The Beginning of the Callippick Period	4383	3677	331
The Death of Alexander - - - -	4390	3684	324
The Grecian Epocha of the Seleucida	4402	3695	312
The Æra of the Asmoneans or Maccabees	4548	3841	166
The Epocha of Simon - - - -	4570	3865	143
The Julian Epocha, or Correct Callend.	4669	3962	46
The Beginning of the Reign of Herod	4677	3970	37
The Spanish Æra - - - -	4676	3969	36
The Battle of Actium - - - -	4683	3976	31
The taking of Alexandria - - - -	4684	3977	30
The Epocha of the Title of Augustus -	4687	3980	27
The true Birth of CHRIST - - - -	4710	4005	4
The Vulgar or Dionysian Years of Christ	4714	4009	Anno Christi
The Passion or Death of Christ - - -	4746	4041	33
The Destruction of Jerusalem - - -	4783	4078	70
The Dioclesian or Æra of Martyrs -	4997	4292	284
The Dioclesian Persecution - - - -	5015	4310	302
The Epocha of Constantine the Great	5019	4314	306
The Council of Nice - - - -	5038	4333	325
The Encænia of Constantinople - - -	5043	4338	330
Phocas makes Pope Boniface Head of the Church - - - -	5319	4614	606
Mahomet broaches his Imposture at Mecca	5321	4616	608
The Epocha of the Hegira - - - -	5335	4630	622
The Epocha of Yefdejerd - - - -	5345	4640	632
The Jellalæan or Gelzelæan Epocha -	5792	5087	1079
The Epocha of the Reformation - - -	6230	5525	1517
The Revolution effected by King William	6401	5696	1688
The British Epocha, or correct Kalendar	6465	5760	1752

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈										☉ in ♉									
Time from noon.	10	11	12	Ascen						Time from noon.	10	11	12	Ascen					
	♈	♈	♈	♈	♈	♈	♈	♈	♈		♈	♈	♈	♈	♈	♈	♈	♈	♈
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr
0	0	0	9	22	26	42	12	3		1	52	0	9	17	16	31	4	28	
0	4	1	10	23	27	22	13	3		1	55	1	10	18	17	11	5	29	
0	7	2	11	24	28	2	14	4		1	59	2	11	19	17	51	6	30	
0	11	3	12	25	28	42	15	5		2	3	3	12	19	18	31	7	1	
0	15	4	13	25	29	21	15	6		2	7	4	13	20	19	12	8	2	
0	18	5	14	26	0	11	16	7		2	11	5	14	21	19	52	9	3	
0	22	6	15	27	0	40	17	8		2	15	6	15	22	20	32	9	4	
0	26	7	16	28	1	20	18	8		2	19	7	16	22	21	13	10	5	
0	29	8	17	29	2	0	18	9		2	22	8	17	23	21	54	11	6	
0	33	9	18	29	2	39	19	10		2	26	9	18	24	22	35	11	7	
0	37	10	19	1	3	19	20	11		2	30	10	19	25	23	16	12	8	
0	40	11	20	1	3	59	20	12		2	34	11	20	25	23	57	13	9	
0	44	12	21	2	4	38	21	13		2	38	12	21	26	24	38	14	10	
0	48	13	22	3	5	17	22	14		2	42	13	22	27	25	19	14	11	
0	51	14	23	4	5	57	23	15		2	46	14	23	28	26	0	15	12	
0	55	15	24	5	6	36	23	15		2	50	15	24	29	26	42	16	12	
0	59	16	25	6	7	15	24	16		2	54	16	25	29	27	24	17	13	
1	3	17	26	6	7	55	25	17		2	58	17	26	30	28	6	18	14	
1	6	18	27	7	8	34	26	18		3	2	18	27	1	28	47	18	15	
1	10	19	28	8	9	14	26	19		3	6	19	28	2	29	30	19	16	
1	14	20	29	9	9	53	27	19		3	10	20	29	3	0	13	20	17	
1	18	21	30	10	10	33	28	20		3	14	21	29	3	0	55	21	18	
1	21	22	1	10	11	12	28	21		3	18	22	30	4	1	37	22	18	
1	25	23	2	11	11	52	29	22		3	22	23	1	5	2	20	22	19	
1	29	24	3	12	12	32	30	23		3	26	24	2	6	3	2	23	20	
1	33	25	4	13	13	12	1	24		3	31	25	3	7	3	46	24	21	
1	36	26	5	14	13	52	1	25		3	35	26	4	7	4	29	25	22	
1	40	27	6	14	14	32	2	25		3	39	27	5	8	5	12	26	23	
1	44	28	7	15	15	12	3	26		3	43	28	6	9	5	55	27	24	
1	48	29	8	16	15	51	4	27		3	47	29	7	10	6	39	27	25	
1	52	30	9	17	16	31	4	28		3	51	30	8	11	7	22	28	25	

TABLE OF HOUSES.

3.

A TABLE of HOUSES for the Latitude of 51 Degree 32 Minutes, according to the Doctrine of Ptolemy serving the City of London, &c.

☉ in ♀										☉ in ♂									
Time from noon.	10	11	12	1	2	3	4	5	6	Time from noon.	10	11	12	1	2	3	4	5	6
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr
3	51	0	8	11	7	22	28	25	6	0	0	6	6	0	0	24	2	2	2
3	55	1	9	12	8	6	29	26	6	4	1	7	7	0	47	25	2	2	2
4	0	2	10	13	8	50	30	27	6	9	2	8	8	1	33	26	2	2	2
4	4	3	10	14	9	34	1	28	6	13	3	9	9	2	19	27	2	2	2
4	8	4	11	15	10	18	2	29	6	17	4	10	10	3	5	27	2	2	2
4	12	5	12	16	11	3	2	m	6	22	5	11	11	3	51	28	2	2	2
4	16	6	13	17	11	47	3	1	6	26	6	12	12	4	37	29	2	2	2
4	21	7	14	17	12	3	4	2	6	31	7	13	13	5	23	m	1	1	1
4	25	8	15	18	13	16	5	3	6	35	8	14	14	6	9	1	1	1	1
4	29	9	16	19	14	1	6	4	6	39	9	15	15	6	55	2	1	1	1
4	33	10	17	20	14	46	7	5	6	44	10	16	16	7	40	2	1	1	1
4	38	11	18	21	15	31	8	6	6	48	11	17	16	8	26	3	1	1	1
4	42	12	19	21	16	16	8	7	6	52	12	18	17	9	12	4	1	1	1
4	46	13	20	22	17	1	9	8	6	57	13	19	18	9	57	5	0	0	0
4	51	14	21	23	17	46	10	9	7	1	14	20	19	10	41	6	0	0	0
4	55	15	22	24	18	32	11	10	7	5	15	21	20	11	28	7	0	0	0
4	59	16	23	24	19	17	12	11	7	9	16	22	21	12	14	8	0	0	0
5	3	17	24	25	20	4	13	12	7	14	17	23	22	12	59	8	0	0	0
5	8	18	25	26	20	49	14	13	7	18	18	24	22	13	45	9	0	0	0
5	12	19	25	27	21	35	14	14	7	22	19	25	23	14	30	10	0	0	0
5	16	20	26	28	22	20	15	14	7	27	20	26	24	15	14	11	0	0	0
5	21	21	27	28	23	6	16	15	7	31	21	27	25	15	59	12	0	0	0
5	25	22	28	29	23	51	17	16	7	35	22	28	25	16	44	13	0	0	0
5	29	23	29	m	24	37	18	17	7	39	23	28	26	17	29	13	0	0	0
5	34	24	30	1	25	23	19	18	7	44	24	29	27	18	14	14	0	0	0
5	38	25	1	2	26	9	20	19	7	48	25	m	28	18	58	15	0	0	0
5	43	26	2	3	26	55	20	20	7	52	26	1	28	19	42	16	0	0	0
5	47	27	3	4	27	41	21	21	7	56	27	2	29	20	26	17	0	0	0
5	51	28	4	5	28	27	22	22	8	0	28	3	30	21	10	18	0	0	0
5	56	29	5	5	29	13	23	23	8	5	29	4	1	21	54	18	0	0	0
6	0	30	6	6	30	0	24	24	8	9	30	5	2	22	28	19	0	0	0

C 2

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈										☉ in ♉										
Time from noon.		10	11	12	Ascen		1	2	3	Time from noon.		10	11	12	Ascen		1	2	3	
h	m	gr	gr	gr	gr	m	gr	gr		h	m	gr	gr	gr	gr	m	gr	gr		
8	9	0	5	2	22	38	19	22		10	8	0	2	26	13	30	13	20		
8	13	1	5	3	23	22	20	23		10	12	1	3	26	14	9	14	21		
8	17	2	6	3	24	5	21	24		10	16	2	4	27	14	49	15	22		
8	21	3	7	4	24	48	22	25		10	20	3	5	28	15	29	16	23		
8	25	4	8	5	25	32	23	26		10	24	4	5	29	16	9	16	24		
8	29	5	9	6	26	15	23	27		10	27	5	6	29	16	48	17	25		
8	34	6	10	7	26	58	24	28		10	31	6	7	30	17	28	18	26		
8	38	7	11	8	27	41	25	29		10	35	7	8	1	18	6	19	27		
8	42	8	12	8	28	23	26	30		10	39	8	9	2	18	48	20	28		
8	46	9	13	9	29	6	27	1		10	42	9	10	2	19	27	20	29		
8	50	10	14	10	29	48	27	2		10	46	10	11	3	20	6	21	30		
8	54	11	15	11	om	30	28	3		10	50	11	11	4	20	48	22	1		
8	58	12	16	12	1	13	29	4		10	54	12	12	4	21	26	23	2		
9	2	13	17	12	1	55	4	4		10	57	13	13	5	22	5	24	3		
9	6	14	18	13	2	36	1	5		11	1	14	14	6	22	45	24	4		
9	10	15	18	14	3	18	2	6		11	5	15	15	7	23	24	25	5		
9	14	16	19	15	4	0	2	7		11	9	16	16	7	24	4	26	6		
9	18	17	20	16	4	41	3	8		11	12	17	17	8	24	43	27	7		
9	22	18	21	16	5	22	4	9		11	16	18	17	9	25	23	28	8		
9	26	19	22	17	6	4	5	10		11	20	19	18	10	26	3	29	10		
9	30	20	23	18	6	45	5	11		11	23	20	19	10	26	42	30	11		
9	34	21	24	19	7	26	6	12		11	27	21	20	11	27	22	0	12		
9	38	22	25	19	8	6	7	13		11	31	22	21	12	28	1	1	13		
9	41	23	26	20	8	47	8	14		11	34	23	22	13	28	40	2	14		
9	45	24	27	21	9	28	9	15		11	38	24	23	13	29	20	3	15		
9	49	25	28	22	10	8	9	16		11	42	25	23	14	29	59	4	16		
9	53	26	28	23	10	48	10	17		11	45	26	24	15	0	4	39	5	17	
9	57	27	29	23	11	29	11	18		11	49	27	25	15	1	19	5	18		
10	1	28	24	12	9	12	12	19		11	53	28	26	16	1	59	6	19		
10	5	29	1	12	50	12	20			11	56	29	26	17	2	39	7	20		
10	8	30	2	13	30	13	20			12	0	30	27	17	3	19	8	21		

TABLE OF HOUSES.

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A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♈								☉ in ♉																				
Time	Ascen.			Time			Ascen.			Time	Ascen.			Time			Ascen.											
from	10	11	12	1	2	3	from	10	11	12	1	2	3	from	10	11	12	1	2	3								
noon.	♈	♈	♈	♈	♈	♈	noon.	♈	♈	♈	♈	♈	♈	noon.	♈	♈	♈	♈	♈	♈								
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr				
12	0	0	27	17	3	19	8	21		13	52	0	22	10	25	15	10	27		13	52	0	22	10	25	15	10	27
12	4	1	28	18	3	59	9	22		13	55	1	23	11	26	5	11	28		13	55	1	23	11	26	5	11	28
12	7	2	29	19	4	39	10	24		13	59	2	24	11	26	56	12	29		13	59	2	24	11	26	56	12	29
12	11	3	30	20	5	20	11	25		14	3	3	25	12	27	47	14	1		14	3	3	25	12	27	47	14	1
12	15	4	1	20	6	2	11	26		14	7	4	25	13	28	3	15	2		14	7	4	25	13	28	3	15	2
12	18	5	1	21	6	43	12	27		14	11	5	26	14	29	31	16	4		14	11	5	26	14	29	31	16	4
12	22	6	2	22	7	24	13	28		14	15	6	27	15	0	24	18	5		14	15	6	27	15	0	24	18	5
12	26	7	3	23	8	5	14	29		14	19	7	28	15	1	18	19	6		14	19	7	28	15	1	18	19	6
12	29	8	4	23	8	46	15	30		14	22	8	29	16	2	13	20	8		14	22	8	29	16	2	13	20	8
12	33	9	5	24	9	28	16	2		14	26	9	3	17	3	10	22	9		14	26	9	3	17	3	10	22	9
12	37	10	6	25	10	10	17	3		14	30	10	1	18	4	6	23	10		14	30	10	1	18	4	6	23	10
12	40	11	6	25	10	52	19	4		14	34	11	2	19	5	3	25	11		14	34	11	2	19	5	3	25	11
12	44	12	7	26	11	35	20	5		14	38	12	2	20	6	1	26	13		14	38	12	2	20	6	1	26	13
12	48	13	8	27	12	17	21	6		14	42	13	3	20	7	0	28	14		14	42	13	3	20	7	0	28	14
12	51	14	9	28	12	59	22	7		14	46	14	4	21	8	0	29	15		14	46	14	4	21	8	0	29	15
12	55	15	10	28	13	42	23	9		14	50	15	5	22	9	2	30	17		14	50	15	5	22	9	2	30	17
12	59	16	11	29	14	26	24	10		14	54	16	6	23	10	6	2	18		14	54	16	6	23	10	6	2	18
13	3	17	12	30	15	10	25	11		14	58	17	7	24	11	9	4	19		14	58	17	7	24	11	9	4	19
13	6	18	12	1	15	54	26	12		15	2	18	8	25	12	14	6	21		15	2	18	8	25	12	14	6	21
13	10	19	13	1	16	39	27	13		15	6	19	9	26	13	21	8	22		15	6	19	9	26	13	21	8	22
13	14	20	14	2	17	23	28	15		15	10	20	9	27	14	29	9	23		15	10	20	9	27	14	29	9	23
13	18	21	15	3	18	8	29	16		15	14	21	10	27	15	37	11	24		15	14	21	10	27	15	37	11	24
13	21	22	16	4	18	54	30	17		15	18	22	11	28	16	46	13	26		15	18	22	11	28	16	46	13	26
13	25	23	16	4	19	39	31	18		15	22	23	12	29	17	58	14	27		15	22	23	12	29	17	58	14	27
13	29	24	17	5	20	26	32	20		15	26	24	13	30	19	11	16	28		15	26	24	13	30	19	11	16	28
13	33	25	18	6	21	14	4	21		15	31	25	14	3	20	27	17	29		15	31	25	14	3	20	27	17	29
13	36	26	19	7	22	1	5	22		15	35	26	15	2	21	43	19	8		15	35	26	15	2	21	43	19	8
13	40	27	20	7	22	49	6	23		15	39	27	16	3	23	3	21	2		15	39	27	16	3	23	3	21	2
13	44	28	21	8	23	37	7	24		15	43	28	17	4	24	54	22	3		15	43	28	17	4	24	54	22	3
13	48	29	21	9	24	26	8	25		15	47	29	18	5	25	47	24	5		15	47	29	18	5	25	47	24	5
13	52	30	22	10	25	15	10	27		15	51	30	18	6	27	10	26	6		15	51	30	18	6	27	10	26	6

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♄										☉ in ♅										
Time	from	10	11	12	1	2	3			Time	from	10	11	12	1	2	3			
noon	♄	♄	♅	♅	♅	♅	♅	♅	♅	noon	♅	♅	♅	♅	♅	♅	♅	♅	♅	
h	m	gr	gr	gr	gr	m	gr	gr		h	m	gr	gr	gr	gr	m	gr	gr		
15	5	0	18	6	27	10	26	6		18	0	0	18	13	0	0	17	11		
15	55	1	19	7	28	37	28	7		18	4	1	20	14	2	37	19	12		
16	0	2	20	8	0	6	9	9		18	9	2	21	16	5	19	20	13		
16	4	3	21	9	1	38	1	10		18	13	3	22	17	7	58	22	14		
16	8	4	22	10	3	12	3	11		18	17	4	23	19	10	31	23	15		
16	12	5	23	11	4	48	5	12		18	22	5	24	20	13	7	25	16		
16	16	6	24	12	6	27	7	14		18	26	6	25	22	15	37	26	17		
16	21	7	25	13	8	38	9	15		18	30	7	26	23	13	7	28	18		
16	25	8	26	14	9	52	11	16		18	35	8	27	25	20	35	29	29		
16	29	9	27	16	11	40	12	17		18	39	9	29	7	23	0	11	20		
16	33	10	28	17	13	30	14	18		18	44	10	30	28	25	22	1	21		
16	38	11	29	18	15	27	16	20		18	48	11	1	31	27	43	2	23		
16	42	12	30	19	17	16	18	21		18	52	12	2	2	0	8	0	4	24	
16	46	13	31	20	19	15	20	22		18	57	13	3	3	2	16	5	25		
16	51	14	32	21	21	17	21	23		19	1	14	4	5	4	27	6	26		
16	55	15	33	22	23	23	23	25		19	5	15	6	9	6	33	8	27		
16	59	16	34	24	25	32	25	26		19	9	16	7	9	8	39	9	28		
17	4	17	35	25	27	44	27	27		19	14	17	8	10	10	43	10	29		
17	8	18	36	26	29	58	28	28		19	18	18	9	12	12	42	11	30		
17	12	19	37	27	31	62	29	29		19	22	19	10	14	14	40	12	1		
17	16	20	38	28	33	38	31	31		19	27	20	12	16	16	31	13	2		
17	20	21	39	29	35	7	0	3		19	31	21	13	18	18	20	15	3		
17	25	22	40	30	37	24	5	21		19	35	22	14	19	20	15	16	4		
17	30	23	41	31	39	58	7	31		19	39	23	15	21	21	12	17	5		
17	34	24	42	32	41	28	8	31		19	44	24	16	23	23	33	18	6		
17	38	25	43	33	43	55	10	31		19	48	25	18	25	25	13	19	7		
17	42	26	44	34	45	29	11	31		19	52	26	19	27	26	49	20	8		
17	47	27	45	35	47	5	13	31		19	56	27	20	28	28	22	21	9		
17	51	28	46	36	49	42	14	31		20	0	28	21	30	29	53	22	10		
17	56	29	47	37	51	20	16	31		20	5	29	23	1	11	23	23	11		
18	0	30	48	38	53	0	17	11		20	9	30	24	2	2	51	24	12		

TABLE OF HOUSES.

3

A TABLE of HOUSES for the Latitude of 51 Degree 32 Minutes, according to the Doctrine of Ptolemy serving the City of London, &c.

☉ in ♍										☉ in ♎											
Time from noon.		10	11	12	Ascen			1	2	3	Time from noon.		10	11	12	Ascen			1	2	3
		♍	♍	♍	♍	♍	♍	♍	♍	♍			♎	♎	♎	♎	♎	♎	♎	♎	♎
h	m	gr	gr	gr	gr	gr	m	gr	gr		h	m	gr	gr	gr	gr	m	gr	gr		
20	9	0	24	4	2	51	24	12			22	8	0	3	20	4	45	20			
20	13	1	25	6	4	14	25	12			22	12	1	4	21	5	35	21			
20	17	2	27	7	5	37	26	13			22	16	2	6	23	6	23	22			
20	21	3	28	9	6	58	27	14			22	20	3	7	24	7	12	23	1		
20	25	4	29	11	8	17	28	15			22	24	4	8	25	8	0	23	1		
20	29	5	30	13	9	33	29	16			22	27	5	9	26	8	48	24	1		
20	34	6	2	14	10	49	30	17			22	31	6	10	28	9	35	25	1		
20	38	7	3	16	12	3	1	18			22	35	7	12	29	10	22	26	1		
20	42	8	4	18	13	14	2	19			22	39	8	13	30	11	7	26	1		
20	46	9	6	19	14	24	3	20			22	42	9	14	1	11	52	27	1		
20	50	10	7	21	15	32	3	21			22	46	10	15	2	12	37	28	1		
20	54	11	8	23	16	40	4	21			22	50	11	17	3	13	22	29	1		
20	58	12	9	24	17	46	5	22			22	54	12	18	4	14	7	29	1		
21	2	13	11	26	18	51	6	23			22	57	13	19	5	14	52	30	1		
21	6	14	12	28	19	55	7	24			23	1	14	20	6	15	35	1	1		
21	10	15	13	29	20	58	8	25			23	5	15	21	7	16	17	2	2		
21	14	16	15	3	22	0	9	26			23	9	16	23	8	17	1	2	2		
21	18	17	16	2	23	0	10	27			23	12	17	24	9	17	44	3	2		
21	22	18	17	4	23	59	10	28			23	16	18	25	10	18	26	4	2		
21	26	19	19	5	24	58	11	28			23	20	19	26	11	19	9	5	2		
21	30	20	20	7	25	55	12	29			23	23	20	27	12	19	52	5	2		
21	34	21	22	8	26	51	13	30			23	27	21	29	13	20	33	6	2		
21	38	22	23	10	27	47	14	1			23	31	22	31	14	21	14	7	2		
21	41	23	24	11	28	42	15	2			23	34	23	1	15	21	56	7	2		
21	45	24	25	13	29	36	15	3			23	38	24	2	16	22	37	8	2		
21	49	25	26	14	30	29	16	4			23	42	25	3	17	23	18	9	2		
21	53	26	27	15	1	22	17	4			23	45	26	4	18	23	59	9	2		
21	57	27	29	16	2	14	18	5			23	49	27	5	19	24	39	10	1		
22	1	28	30	18	3	4	19	6			23	53	28	7	20	25	21	11			
22	5	29	2	19	3	55	19	7			23	56	29	8	21	26	2	12			
22	8	30	3	20	4	45	20	8			24	0	30	9	22	26	42	12			

C 4

Of the ECLIPSES this present Year, 1792.

IN the course of the present year there will be but two Eclipses, both of the Sun, and both invisible to the inhabitants of Great Britain; these will happen in the manner following:

The first will be a solar defect on the 22d day of March, Conjunction at 5h. 50m. P. M. in Long. $os\ 2^{\circ}\ 4'\ \frac{1}{2}$,

\odot 's Latitude $3'\ \frac{1}{2}$ North.

\odot will be centrally eclipsed on the meridian at 5h. 51m. 34 sec. in Long. $87^{\circ}\ 52'\ \frac{1}{2}$ West, and $4^{\circ}\ \frac{1}{2}$ North Lat.

The second will likewise be a solar defect and invisible also to us; this will fall on the 16th day of Sept. as follows:

Conjunction at 9h. 18m. *Mant.* in Long. $5s\ 24^{\circ}\ 8'$.

\odot 's Lat. $1'$ South.

At which time the Sun will be centrally eclipsed on the Meridian in $40^{\circ}\ \frac{1}{2}$ East Long. and $1^{\circ}\ \frac{1}{2}$ North Lat.

Thus far say the unerring rules of Astronomy; while shrewd guessing Astrology tells us, that it is the opinion of Ptolemy, and of most of the eminent writers among the ancients, that Eclipses exert their influence upon those Places where they are visible; and I believe that,

Nil nocet Eclipsis illis regionibus in quibus non videtur, stands as an established maxim among Astrologers to this day. But while the Astrologers have in all ages spoken of the influences of Eclipses, such as *Tumults, Seditions, Plagues, Famines, Storms, Inundations, &c. &c.* and although history has pointed out in all ages Eclipses as presages to great calamities or revolutions; as for instance, A. C. 721, *A total Eclipse of the Moon*, the Assyrian empire ceased and the Babylonian established; A. C. 502, *an Eclipse of the Moon*, followed by the slaughter of the Sabines, and death of Valerius Publicolo; A. C. 491, *Eclipse of the Moon*, followed by a great famine at Rome, and beginning of the Peloponnesian war; A. C. 463, *Eclipse of the Sun*, war with Persius, falling off from the Egyptians; A. C. 431, *Total Eclipse of the Sun*, a comet and plague at Athens; A. C. 394, *Sun eclipsed*, Persians beat Conon in a sea engagement; A. C. 168, *Total Eclipse of the Moon*, the next day Perseus, King of Macedonia, was conquered by Paulus Emilius. Again, in the year of our Lord 237, we find a *total Eclipse*

of the Sun, the reign of the Gordiani short, and persecution of Christians; Anno 306, *Eclipse of the Sun*, stars are seen, the Emperor Constantius died; Anno 1009, *Eclipse of the Sun*, Jerusalem taken by the Saracens; and in the year 1133, a great *Eclipse of the Sun*, stars are seen, a schism in the church by two Popes at once; *cum multis aliis*. But let these suffice. Astrology, thus backed by History, I should suppose, has with any reasonable man a sufficient plea for holding forth from time to time the ancient doctrine, and giving presages of the portents of Eclipses. But it seems in these days of sapience, the children of the present age are so much wiser than their forefathers, that they will admit of no such thing. *Tempus edax rerum*, with gnawing tooth, has devoured the systems, the documents, the data and postulata of former ages, which now branded with the name of ancient superstition, fall a victim to modern incredulity. But alas, who can withstand the whimsical goddess of Fashion? It is she that gives the mode even in Divinity and Physic; and turns and changes; models and re-models them, with as much alacrity, and as little concern, as she does a fop's garment, or a lady's head-dress. I remember an old clergyman of my acquaintance once (on shewing me his wardrobe) surprized me with about half a score of good old hats of different fashions; When I was a young man, said he, hats were all the taste; and judgment was past on every one, not by the furniture of his head but by the fashion of his hat. A stranger in a canonical habit goes by; Who is that? says one. That, says another, is the gentleman who is to preach to-morrow; won't you go and hear him? Not I indeed, replies he, you will have some long winded antiquated discourse or other; look at his old fashioned hat! I knew an ingenious physician who lost business apace by his obstinacy in this particular; which an upstart quack, from nobody knew where, with a hat à la mode François ran away with. Observing these, and other occurrences of the like nature, and having my fortune to make in the world, I struck in with the foolish humour of the times; but fashions wearing out much faster than hats, I found upon my advancement to this little rectory, that in the hat manufactory I was stocked for life. And be assured, said my reverend friend, that fashion, like a weathercock, is not only continually veering about, but

she is also ever turning to some former point; and I make no doubt but if it shall please the Fountain of Life to prolong my days forty years longer, (let her ladyship vary as she pleases) I shall find one hat or another which will very nigh suit her.

As this is the case, and as every thing is fleeting in this sublunary orb, let not the scoffers of ancient learning think that their modern structure is built upon a sure ground, like the *Hill of Sion*, never to be removed; rather let them reflect, that amidst the various chances and changes in this transitory life, the day will come when our now despised science, like the oldest of the parson's hats, shall again be the fashion; and their successors shall laugh at them as they now do at their forefathers.

OF all the Revolutions in the Christian world, since the doctrine of divine atonement through the blood of the blessed Mediator and Redeemer has been established, none has appeared of so much consequence as the reformation begun and carried on by MARTIN LUTHER. Some account of this prodigious man, of his proceedings therein, and of the discipline, worship and government of that part of the Christian church called *Lutherans*, which in point of antiquity takes place of all other civil establishments in Europe dissenting from the church of Rome, it is thought will not be unacceptable to many of our readers; and the consideration of such great events, flowing from causes so apparently weak and insignificant, will ever prove, that the government of the world is under the direction of a divine Power.

Pope Leo X. being raised to the papal throne, found the revenues of the church exhausted by the vast projects of his two predecessors Alexander VI. and Julius II. and his own temper being naturally liberal and enterprizing, his taste and munificence in rewarding men of genius involved him into a train of expences, to extricate himself from which he had recourse to the sale of indulgences; a practice, though not new, yet was never before carried to that extravagant height. These indulgences were granted first by Pope Urban II. to those who went in person to the enterprize of conquering the *Holy Land*; afterwards to those who sent a soldier

soldier for that purpose: In time they were granted to those who gave money towards the accomplishing any pious work enjoined by the Pope. Julius II. had bestowed them on all who contributed towards building the church of St. Peter at Rome, and Leo's grant was towards carrying on and compleating that wonderful and magnificent fabric.

The promulgation of these indulgences in Germany, with some share of the profits arising from the sale of them, was assigned to Albert, Elector of Mentz and Archbishop of Magdeburgh, who employed one *Tetzel*, a Dominican Friar, of licentious morals but an active spirit, as his chief agent for retailing them in Saxony. He, assisted by the Monks of his order, by disposing of them at a low price, carried on a most lucrative and extensive traffic among a deluded multitude; while he and his associates often squandered in drunkenness, gaming, and debauchery, those sums which were given for pardon of sins, and the hope of obtaining eternal happiness.

The eyes of the more intelligent began now to be opened; princes and nobles were displeased at seeing their vassals drained of their money, while the truly religious pitied the delusions of those, who, trusting to their indulgences, little thought of abounding in faith, or the practice of the true Christian virtues.

It was at this time, when every one began to look upon these practices with honest indignation or silent contempt, that *Martin Luther* first began to call the efficacy of indulgences in question, and declaim against the wickedness and doctrines of their propagators.

Luther was a native of Eisleben, in Saxony, born A. D. 1483, of poor parents, but had received a learned education according to the knowledge of those times, and gave proofs of a vigorous and acute genius. With a mind tinged with religious melancholy, and chusing the solitude of a monastic life, he retired to a convent of Augustine Friars, and assumed the habit of that order. The great reputation he there acquired both for his piety and learning may be gathered from this, that *Frederic*, Elector of Saxony, having founded an University at Wittenberg, *Luther* was chosen to teach philosophy and theology in the schools, and was esteemed as the greatest ornament of that body.

At this time *Tetzel* began to proceed with his indulgences in the neighbourhood of Wittenberg. *Luther*, who had long studied a copy of the Bible which was in the library of his monastery, beheld with concern the artifice of those who sold, and the simplicity of those who bought them. From the pulpit of the great church at Wittenberg he inveighed bitterly against the irregularities of those who published them, and publicly taught the danger of relying for salvation on any other means than those prescribed by God's word. The novelty of his opinions, his personal character, and persuasive eloquence, made a deep impression upon his hearers. He wrote to Albert himself, and exclaimed against the false opinions and wicked lives of his preachers; but that prelate, interested in their success, would do nothing to retard their progress. He next published ninety-five propositions as subjects of disputation, and invited the learned on a fixed day to controvert the same either in person or writing; but although none appeared, his propositions flew rapidly all over Germany, and were read with the greatest eagerness. The Friars of his own order (among whom he had acquired uncommon authority) were pleased with his invectives against the Dominicans; and the Elector secretly favoured the attempt, hoping to give a check to the court of Rome, which the secular princes had long attempted in vain.

(*To be continued.*)

OBSERVATIONS on the FOUR QUARTERS.

THE WINTER QUARTER.

THIS Quarter commenced on the 21st day of Dec. 1791, at 7h. 46m. P.M. the lamp of day then reaching the most southern part of his annual circuit thro' the Zodiac, and making to the inhabitants of the northern parts of this terrestrial orb, days short and gloomy, nights long and tedious. In husbandry, ancient Astrologers advise to cut timber (in order to have it sound) in December or January, ♄ in ☾ or ☿; to remove young trees in November or February, ♄ in the last quarter, and in *signa* ♄, ♀, vel ☿. But the moderns may do as they please; and

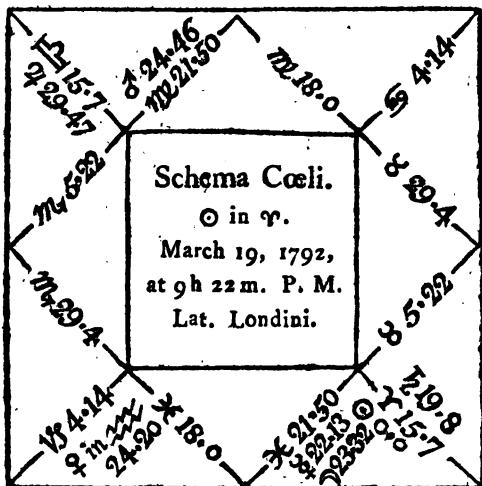
and in truth, Agriculture is so much improved of late that I insist not upon ancient *punctilios* of this nature, no more than I do upon planetary hours to gather herbs in for physical uses. In Physic, I believe, the old rule still to be a very good one, viz. *Let a swarm fire and a cup of nectar be thy bath, the kitchen thy apothecaries shop, and hot meats and comfortable broths thy physic.* Of the weather, it is needless to tell

Of rivers bound in icy chains;

Of howling winds, and beating rains.

These will certainly speak for themselves; however, I hope upon the whole this will prove not an unsound quarter to either man or beast. As to politics, in the cabinets of princes, you may expect much consultation; to speak any further would only be a recapitulation of what I have observed before.

Deus nobis hæc Signa dedit. Gloria Deo in excelsis.



THE SPRING QUARTER.

BEGINS when the bright dispenser of light and heat, the Sun, apparently enters the first scruple of Aries, which

which this year happens on the 19th day of March, at 22 minutes past 9 in the afternoon.

- “ When turning from the wintry signs the Sun
- “ His course exalted through the Ram does run;
- “ When first the tender blades of grass appear,
- “ And buds that yet the blasts of *Eurus* fear,
- “ Stand at the door of life, and doubt to clothe the year. }

Ancient Astrology has, for many and wise reasons, from time to time, pitched upon this crisis as a standard, and paid a particular regard to the position of the Heavens at this time, with respect to their judgments of the transient scenes of futurity in this world of vicissitudes. Pursuing the ancient method, I have here given an exact Scheme of the Heavens at the Sun's ingress into Aries, wherein you will observe that 18° of ♈ are on the cusp of Medium Cœli, and $5^{\circ} 22$ min. of ♈ ascending. ♂ is in the 11th house, and ♂ in the 12th, both retrograde. The other planets are all *sub terra*, as in the Scheme; nor do I think at all well posited. We have before somewhere observed, that to stand forth with a heap of technical terms, and a load of Latin quotations from the writers of antiquity, for every assertion, would not only be pedantic to the last degree, but unnecessary to the learned, and to the unlearned entirely useless. We therefore, without any pompous shew of erudition, shall give our opinions (as founded upon the rules of the ancients) with all the modesty of a being liable to error, and at the same time with all the assurance of a Christian Astrologer.

We have seen a year full of commotions and disturbances; the spirit of discontent is gone forth, and the fiend Anarchy is its hellish companion. Happy may we think ourselves who can sit quietly under our own vines, and our own fig-trees, and contemplate the wonderful works of God among the children of men; *how he changeth the times and the seasons; he removeth kings, and he setteth up kings.* Times and tempests, fire and water, obey him; and what we call chance is the secret working of his counsels. The coming days appear to me “*big with the fate of monarchy and kings.*” If, as a great statesman has observed, the fashionable malady has spread its baleful wings over the minds of any of the happy subjects of Great Britain, may he

he who *giveth wisdom to the wise, and knowledge to them who know understanding*, make such to know, that the true Rights of Man are the blessings which we at present enjoy under the best of kings in a well regulated government; and that, in this nation, such language is the dialect of the Devil, propagated by the sons of treachery teaching the doctrine of licentiousness under the mask of religious liberty. But may the promoters of dissensions of this kind be banished from all society; and while we bless our forefathers for one revolution, never let our successors have us to curse for another. I have been more particular upon this head, because at this juncture I think it the more needful. For other observations, I leave them to my judgments on the other parts of the year; and hoping the sons of Agriculture will have as yet no particular reason to complain, I proceed next to

THE SUMMER QUARTER.

THIS quarter commences at the entrance of ☉ into ♊, which this year will be on the 20th day of June, at 7 hours 19 min. past noon. Now expect to hear of no small bustle in the world; Italy perhaps is not so quiet as his Holiness could wish. Some scurrilous pamphlets about this time abuse the liberty of the press; faction is easy under no government; and, if I judge aright, the revenues of the established church are looked upon with an evil eye by those who, had they their will, would be the ruin of both church and state. News of consequence is daily expected from foreign parts; warm wishes and cool disappointments torture the breasts of many. In spiritual concerns many grope in the dark after a new fangled light, while others, rejecting the light, follow darkness because their deeds are evil. But I proceed now to

THE AUTUMNAL QUARTER.

THIS quarter takes its beginning upon the entrance of ☉ into ♏, which this year will be on Saturday the 22d day of September, at 4 minutes past 9 in the morning.

And now the balance poised right,
Makes equal day, and equal night.

Manv

Many things are the conclusion of this quarter (which nearly concludes the year) will be manifest which some doubted, and others little dreamed of: And many other strange and unexpected scenes and changes will take place in the political government of this mundane system, before the conclusion of the present century. This I think the Christian Astrologer, aided by history ancient and modern, may venture to foretell; but if he advances further, and pretends to predict the how, the where, and the when these surprising changes shall be brought about, he errs in presuming to enter into the Arcana of divine Wisdom, and unlocking those mysteries of which none but the prophets had ever the key; and even what they delivered from the Sacred Oracles of God was not intelligible to the frail understanding of mortal men, till the prediction was fulfilled, and the fact spoke for itself. Keeping then within the verge of this once noble science, and honestly acknowledging with the famous Burton, that *Ars vera est, sed pauci artifices reperiuntur*, we will conclude with such modest hints as the subject and our abilities will admit of. The world itself is drawing towards the time when not only it, but “*all who it inhabit, shall dissolve; and like the baseless fabric of a vision, leave not a wreck behind!*” But ere this time much must be done, and much is now a doing, and *the secret ways of God are fast finding out*. In what relates to our beloved Britain, although I cannot say but we may suffer from losses on the tempestuous ocean, and ill news may arrive from the West, yet trade shall flourish, and commerce spread its sails to every part of the globe. Agriculture shall flourish among us, and the rustics be taught what their forefathers never knew. But this prognostic extends to future days; at present I see no fear of famine, the scourge of many nations, but hope I may predict upon the whole a sufficient crop of the necessaries of life; what I chiefly fear is what I have chiefly insisted upon, *viz.* dissensions among ourselves. Britons undivided may defy the world; but the present page permits me only to say, that if we will be happy we may, by shewing obedience to the best of Governments and the best of Kings:

VIVANT REX ET REGINA.

FINIS.

OLD POOR ROBIN.
AN ALMANACK,

COMPOSED

(According to the modern Mode of Composition)

ON

A Variety of Subjects, both Ancient and Modern.

And for the Reader's further Entertainment,

Part in Prose,
Part in Verse;
Part Narrative,

Part Contemplative;
Part Serious,
Part Comic;

FOR THE

Entertainment and Improvement of the human Mind,
and adapted to the meanest Capacity.

BEING

A new improved Edition of a very old
EPHEMERIS, for the Year of our Lord, 1792.

Being the one Hundred and Thirtieth
Bissexile or Leap Year,

And the Fortieth Year of the New Style in

Written by **POOR ROBIN**, Knight of the **Bird**
Island, and Well-Wisher to the **MATHEMATICKS**.

If for the true genuine POOR ROBIN's Di'ry,
Or for *Moore*, or for Partridge, you should make Enquiry,
He begs in particular you will take care
That you are not put off with false Birmingham ware.
Let him who despises all counterfeits call
For the Almanacks publish'd at Stationers' Hall.

L O N D O N :

Printed for the Company of **STATIONERS**:

And sold by **R. HORSFIELD**, at their Hall, in Ludgate-Street.
Price only Ten Pence for Paper, Printing, the Expence of
setting the Press, the Duty for Stamps, and the immense Trouble
of Composition; as he gives the Stitching gratis.

A Chronological Account of remarkable Occurrences.

SINCE

THE Creation of the World	Years.	5896
The general Deluge, or <i>Noah's Flood</i>		4143
The Birth of <i>Abraham</i>		3797
The Foundation of <i>Solomon's Temple</i>		2801
The Babylonish Captivity		2499
The Birth of our blessed Lord and Saviour <i>Jesus Christ</i>		1792
His Passion, glorious Resurrection		1759
The beginning of the Ten Persecutions by <i>Nero</i>		1720
The Tower of LONDON built		1223
Cambridge made an University		1147
Oxford made an University		921
<i>William Duke of Normandy</i> conquered England		726
The Invention of Guns		414
The Art of Printing first invented at <i>Harlem</i>		362
A great Plague in <i>London</i> , whereof died 30,578,		190
The Horrid Gunpowder Treason		187
The Holy Bible new translated		185
Plague in <i>London</i> , of which, and other Diseases died 54,266		167
<i>New England</i> planted		162
King <i>Charles I.</i> beheaded		144
King <i>Charles II.</i> restored		132
Another Plague in <i>London</i> , whereof, &c. died near 100,000		127
13,200 Houses burnt in <i>London</i>		126
A great Comet appeared in <i>December</i> and <i>January</i>		112
The great 13 Weeks Frost		108
King <i>William III.</i> and Queen <i>Mary</i> crowned, <i>April 11</i>		103
<i>England</i> and <i>Scotland</i> united		85
<i>St. Paul's</i> in <i>London</i> finished		86
Queen <i>Anne</i> died <i>August 1</i> ; and King <i>George I.</i> began		78
<i>Preston</i> Rebellion		77
King <i>George I.</i> died <i>June 11</i> ; and King <i>George II.</i> procl. 16		63
A splendid Comet, seen from <i>Dec. 23</i> to <i>Feb. 20</i>		49
A Rebellion, when the Rebels came so far as <i>Derby</i>		47
The Date and Calendar altered		40
The Militia Act passed		34
King <i>George II.</i> died <i>Oct. 25</i> ; and King <i>George III.</i> began		32
King <i>George III.</i> and Queen <i>Charlotte</i> crowned <i>Sept. 22</i>		31
Peace with France and Spain		28
The Swedes forced to resign their Liberties to the King		20
War commenced against North America		17
The Americans declare themselves Independent States		16
The French signed the first Treaty with the American States		14
War against France commenced		74
War was begun against Spain		13
War against Holland commenced		12
A general Peace		9

P R E F A C E.

Ridere jucundissimum est.

NOW who the sage author of this ancient and sapient adage was; whether the divine Plato, the sententious Seneca, the gray Epictetus, or whether it was Homer, Hesiod, Anacreon, Virgil, Horace, Ovid, Terence, Plautus, or the eloquent Cicero, (not having access to my books at this time;—a plague consume the Pawnbroker,)—I will not pretend to say, neither am I very certain, whether it was not conveyed to my mental faculties in some of my nocturnal visions;—for you must know, that I have my dreams of intelligence, as well as Aristides, Socrates, and Synesius of old; or Emanuel Swedenborg, Jacob Behmen, or John Bunyan of later date. I will however maintain the Proverb to be an excellent good one, founded on truth, and containing *Multum in Parvo*.

But as the best way of pouring sentiments out of one Language into another, (like liquor out of a bottle into a Tankard,) is not the literal translation; but to make the author speak the same meaning, in such manner as he would be supposed to do, was he writing in the interpreter's language; so I will here endeavour to translate the Latin proverb, by an English one which comes to the same meaning.

Ridere jucundissimum est.

Anglice.

Laugh and be fat.

Now as I very well know that two classes of my learned and ingenious Readers, (for whom I bear the most profound respect) I mean the logicians and the geometers, will admit of nothing without a demonstration; to these I say with the Poet,

“To you men of reason, my reasons I'll own;

“And if you don't like them, why let them alone.”

Now well knowing by woeful experience, what an inconsiderable trifle will break a link in a long chain of reasonings, I have *right wisely* contrived to begin a fresh page, lest turning over the leaf should jumble your ideas, and make a fracture in my argument.

In treating however upon this profound subject, I shall not make use of every *pro* and *con* that may serve to elucidate my text: but briefly select a few of the most cogent Arguments relative to the purpose.—And for this short and comprehensive method, I must acknowledge myself highly indebted to that learned and pious divine, who stands immortaliz'd in that excellent poem of *Hudibras*, by the name of *Doomsday Sedgwick*. This reverend and sagacious gentleman, (*Obadiab Sedgwick* by name;) in a divine quarto volume of his, written in the sanctified days of that great enemy to hypocrisy the memorable *Oliver Cromwell*, and left to me as a gracious legacy by that very sagacious person, my good old grandmother, has this remarkable expression—There are (says he) a many reasons which hinder a soul from closing in with Christ; but I shall mention only twenty—following therefore the concise method of my dear and good predecessor *Obadiab*, I proceed as follows.

When we reflect upon the various orders of beings, coelestial, terrestrial, or infernal; we find none but man possessed with the faculty of laughing. In the immense regions of eternal felicity we are informed are joys inexpressible, and pleasures for evermore; but not a syllable is said of one single moment's laughing through endless duration.—Again—In the dreary regions of infernal misery, every one's sensibility will tell him that pains intolerable, fire inconsumeable, horrid howlings, and the dismal screams of woe unutterable, are no very laughable matters; so no man need expect to be very merry in Hell. Proceeding onward in our intellectual chart, let us next contemplate the various orders of terrestrial beings who flit in the air, creep on the earth, or glide in the world of waters, yet even here it will appear to a philosophick eye, that none but man is invested with the powers of risibility.—That amazing mirror of a man, called a monkey, whose form and manners bear so great affinity to the human species, while the manly tricks of the monkey, and the monkey tricks of a man, approach so near to an equality, that we scarce know by their actions, the monkey and the man asunder: he (I say) above all other of the brute creation, has a method of contracting his muscles in a manner, which approaches very near to the French grin:—yet it is observed by naturalists that his grimace, with all the chatter and *parlez vous* that

attends it, is so far from laughter, that they use it as an expression of anger and passion, and not of joy and pleasure.—As to the feathered tribe—they are quite out of the question; for though the parrot (like a woman) often talks about it knows not what; or, like a holder forth at a conventicle, has many words but no meaning; yet the power of laughing is withheld from the whole species, their horny beaks not permitting to them this benign exercise.—Lastly, as to the finny inhabitants of the aqueous part of this great orb of wonders; Be it known that from the foundation of the world to this seventeenth day of stormy March, A. D. 1791, in which your humble servant the author, having left to mortals below the trifling cares and anxieties that attend this transitory life, sits mounted aloft, wrapt in contemplation, without either coal or candle, in a very high garret; it has been the observation of ages, that although many a man can drink like a fish, yet not one of the whole race of scaly beings was ever seen to laugh like a man. But the sapient and learned sages of all ages and nations, however, held this as a fundamental axiom, that *nature made nothing in vain*.—My conclusion then is, that since through the whole race of beings, celestial, terrestrial, and infernal, the human species is only capable of risibility, I hope I have logically (and not without a spice of rhetoric) proved it evident to a demonstration, that laughter was made for man. All this being admitted, I shall next—say said conscience; and before you consider what to say next; reflect upon what you said last.—I knew his lordly disposition; and that, although in the hour of jocund merriment he may be still; yet in the moments of silent meditation he will be heard.—I submitted, and he proceeded thus.—When we enter upon life, we cry involuntarily; when we leave it, we sigh bitterly;—and is the space between the cradle and the tomb to be filled up with nothing but idle laughter? I never had so great an inclination to be serious in my life,—somewhat inward touched my mind; something outward touched my shoulder;—so said I;—no sooner does a good intention enter a man's heart but the Devil is sure to stand at his elbow.—It was only my wife, and by way of compliment to her, I must own that it might have been a trifle worse.

So said she, you have made yourself look sufficiently ridiculous at last.

P. R. E. F. A. C. E.

I replied, in what?

Why, you have spread it abroad, that the world will be at an end in a few weeks; nay, you have even been so presumptuous, as to mention the day.

I said, I absolutely deny it.

Then said she, some one has done it for you.—It is spread however, and fathered upon you.

This I soon found to be a real fact.—It was afterwards said to be the prediction of a wonderful wise man, who lived in an obscure village. A man who had Culpepper's Herbal nearly by heart, and was supposed to understand the planetary hours.—At last, however, it was settled upon an old woman who told fortunes, cured corns, and was shrewdly suspected to be a witch.

I told her that all who knew me would despise the tale, and as I had ever laughed at all prognostication, little likelihood was there that I should presume to predict the time of an event, of which even the very angels in heaven were ignorant,

Be that as it may (answered she) the tale has spread like wildfire, and been productive of no good I assure you.—Several notable dairy women (I have been informed) have resolved to make no butter that week, for fear it should be melted before they can get sale for it.—Mrs. Cheshire, the cheesemonger's wife, is at her wit's end, because she says, she had always the greatest aversion to toasted cheese.—And a man not far from hence having taken it into his head, what a sin it is to let good liquor perish, has piously got drunk three times a day ever since, out of a religious principle.

She was proceeding with her story, when I stopped the career of her flowing fancy, by the following observations.

Alas! (said I) too light and vain are tales like these, for a scene so awful and tremendous; when the glorious luminary of day shall be extinguished, and the celestial wanderers (which have now near six thousand years performed their wonted courses) shall wildly fly from their orbits. When that all-powerful word which in wisdom gave laws to universal nature; shall again speak in terror, and those laws shall be no more; order shall vanish, and confusion immediately take place; creation sink, dissolution triumph, while *Chaos* and ancient Night resume their pristine reign.—Yes, bright Sun—thou shalt be turned into darkness; and thou, O Moon, no more shalt shed thy bor-

rowed light, the solid rocks shall rend in sunder, and the renowned hill, even the hill of Sion, shall totter upon its base. The boiling ocean, dissolving in steam, shall quit its wonted shores, while *Ætna*, *Vesuvius*, and *Hecla*, no more shall roll down their fiery torrents, or rear to the skies the flaming pyramid; but lie undistinguished, lost in the universal blaze. With these dread ideas revolving in the mind, contrition shall breathe the heaving sigh, and lift up to heaven the supplicating hand, while the melting eye drops the penitential tear.

Reflections such as these are best becoming a subject of so solemn a nature, and will I hope be agreeable to the serious part of my readers; whom further to oblige, (as I know not when I shall be in a serious humour again,) I will present them with a Christmas Carrol, which I lately composed by desire of a country choir, and with which I shall conclude my present Preface.

HYMN on the NATIVITY.

YE bless'd above, and ye redeem'd on earth,
Shout forth in extasy Messiah's birth;
Praise and adore the Lamb of God foretold
By ancient seers, and sung by bards of old.
The Saviour comes; the Lord of life appears;
Hush'd be your griefs, and banish'd all your fears;
He heals the sick, the deaf, the lame, the blind,
And brings salvation down to lost mankind.
The infant God descending from the skies,
Th' amaz'd arch-rebel sees, and fearful flies
From ancient Delphos, where he went to dwell,
And howling hides him in the gloom of Hell.
Mother of God! and all ye spotless train
Of white-rob'd virgins, who in dulcet strain
Of purest praise, surround the throne above;
We join your lays, and sing redeeming love.
Angels, archangels, thrones, dominions, pow'rs,
Oh may the song you sing be ever ours;
Thus may we celebrate the Saviour's birth,
Glory to God on high, and peace on earth.
Ye saints, while circling years, and ages roll,
Through earth's remotest realms from pole to pole,
Tell to the ransom'd world in loudest strains,
Justice is satisfied, and Jesus reigns.

CHORUS.

Then ever on that sacred morn,
Let hymns of praise ascend to heav'n,
For unto us a child is born,
For unto us a son is giv'n.

JANUARY hath xxxi Days.

M Decl.
D South.

Full Moon 9

Last Quarter 17

New Moon 23

First Quarter 30

Day at

9 Hours, 4 M. Morn.

21 — 28 M. Morn.

5 — 27 M. Aft.

11 — 1 M. Night.

☉ enters = 20 day at 6 h. 11 min. Morn.

N.S.O.S.W.D.

1	21	A	1st. Sun. aft. Ch.
2	22	M	Day br. 5. 59.
3	23	Tu	Tw. ends 6. 3.
4	24	W	
5	25	Th	Day 7. 56. long.
6	26	F	Epiphany.
7	27	S	
8	28	A	1st. Sun. aft. Epip.
9	29	M	Stationary
10	30	Tu	7 Stars S. 8. 6. a.
11	31	W	
12		Th	
13	2	F	Hil. Cam. T. be.
14	3	S	Oxford T. beg.
15	4	A	2 Sun. aft. Epip.
16	5	M	
17	6	Tu	Old twelfth day.
18	7	W	Q. Char. b. d. k.
19	8	Th	Du. of Tw. 2. 5.
20	9	F	In 8 d. S. H. 1 ret.
21	10	S	Agnes.
22	11	A	3 Sun. aft. Epip.
23	12	M	Hil. Term beg.
24	13	Tu	Day incr. 58 m.
25	14	W	Conv. of St. Paul
26	15	Th	
27	16	F	In 15 d. of S. H.
28	17	S	[2 ret.
29	18	A	4 Sun. aft. Epip.
30	19	M	Stationary
31	20	Tu	

[Circumcision]

Come, let us joyous now prepare,
Tousher in the new-born year, [for t,
And pray let an Ode now be made.

[Old Christmas day.]

Says Strephon.—Why truly, cry'd I,
on reflection,

[Lucian.]

[Plow Monday.]

If you wish for an Ode; I shall have
no objection, [paid for t.

Old New year's day.

But let him make the Ode that is
Nor speak I this from disaffection;
since [to my prince:

Heav'n knows my heart; I'm loyal
And he who would our constitution
alter, [ward, a halter:

[Prisca.]

Grant him, good Gods, his just re-

[Fabian.]

But why I should refuse the task, this
reason [Vincent.]

Sufficient is,—the coldness of the
It would require [season.

A muse of fire,

This lofty theme to handle;

Then who would chuse

Pr. Aug. Fred. born.

A half-starved muse,

With neither coal nor candle?

K. Ch. J. Mart.

Observations in JANUARY.

M Clock.
D bef. O

When floods are bound in icy chains,
And hoary frost benumbs the plains;
With liquor strong 'tis sure no harm
To keep this fading body warm.

1	4	m	2"
6	6		18
11	8		23
16	10		13
21	11		46
26	13		1

M D O D
D ri. & f. ri. & f. ge

1	morn	viii	iii	9	To keep
2	1	4	4	56	10 your carcass
3	2	7	3	57	11 warm in
4	3	9	2	58	12 bed;
5	4	7	2	28	13 Don't take
6	5	4	1	59	14 whore, but
7	5	55	vii	17	15 fairly wed.
8	6	42	59	1	16
9	Driles	58	2	17	Tom
10	5	46	57	3	18 Venner
11	6	49	56	4	19 Big Ben
12	7	52	55	5	20 Giles Prig
13	8	59	54	6	21 Bon. Kate
14	10	6	52	8	22
15	11	16	51	9	23 Fifth mo-
16	morn.	50	10	24	24 narchy men
17	0	29	49	11	25 said of bur
18	1	42	47	13	26 thens they'd
19	2	54	46	14	27 ease ns
20	4	5	45	15	28 And instead
21	5	10	43	17	29 f king
22	D fets	42	18	30	30 Charles they
23	4	32	40	20	20 N king Jesus.
24	5	47	39	21	21 So they cut
25	7	3	37	23	23 off his head,
26	8	18	36	24	24 and he lost
27	9	29	34	26	26 life and
28	10	38	33	27	27 crown,
29	11	44	31	29	29 But mind in
30	morn.	29	31	8	31 his head that
31	0	50	28	32	32 no Jesus
					9 came down.

The censorious world may say
that it pleases against digressions;
but in my humble opinion, it really
shews a very dull and stupid dis-
position, when one man blames
another merely because his imagi-
nation now and then runs away
with his judgment: when he may
assure himself that some future day,
solid judgment walking in the de-
lightful fields of contemplation,
with a fruitful imagination for his
companion, will make the reader
ample amends, by pointing out in
the extensive prospect a thousand
beauties and delightful contrasts,
which plain judgment (who only
looks straight forward) would never
have discovered.

Fancy, to thee alone we owe
One half the pleasures, that we
know.

But as I have dedicated, the
poetical part of this performance
on the other side the leaf, which
runs through the whole of twelve
calendar months (geometrically
speaking) parallel with this; to
the bright Goddess, and parent of
Genius, I here desist, and shall only
present a few hints to those who
pretend they could see no meaning
in the last year's tale of my fa-
mous cat and her three fine
kittens.

FEBRUARY hath XXIX Days.

M Dec.
D South.

Full Moon 8	} Day {	2 Hours, 56 M. Morn.	1 17° 5'
Left Quarter 16		11 — 51 M. Morn.	6 15 36
New Moon 22		5 — 17 M. Morn.	11 4 28
First Quarter 29		7 — 24 M. Night	16 12 18
☉ enters ♋. 18 day. 9h. Aft.			
			21 10 32
			26 8 42

1 21	W	Pu. of B. V. Mar.	THE DREAM.
2 22	Th		<i>A Poem.</i>
3 23	F	On m. of Pu 3 ret.	[Blase.]
4 24	S	On of Twi 2h.	A poem?—Yes. Observe how chime
5 25	A	Septuages. Sun.	[Agatha.]
6 26	M		The flowing lines, in easy rhyme;
7 27	Tu		But then with what intent it
8 28	W	Day incr. 1. 47.	Was wrote;—or what 'twas wrote
9 29	Th	In 8 d. Pu. 4 ret.	about;
10 30	F	7 St. S. 5. 57. aft.	All that you have to puzz'e out:
11 31	S		I for a poem meant it.
12	Fe	Sexages. Sun.	Now quoth the muse I'll straight
			begin;
13 2	M	Hil. Term ends.	[Old Candlemas day.] [thin:]
14 3	Tu	Valentine	And on the flap through thick and
15 4	W		White-I (to ride her gently strivings)
16 5	Th		Cry, where the devil are you driving?
17 6	F	Day br. at 5. 4.	Stop, and turn o'er,—and then start
18 7	S		fair. [here.]
19 8	A	Shrove Sunday.	Z—ds, don't you see who we've got
20 9	M	Cam. T. div. m.	Here's Prince Adolphus come be-
21 10	Tu	Shrove Tuesday	tween us,
22 11	W	Ash Wednesday	And J. piter, and madam Venus;
23 12	Th		We poets (though we're men of
24 13	F	St. Matthias.	letters)
25 14	S		Always give place unto our betters.
26 15	A	1 Sun. in Lent	[Pr. Adol. Fred. born.]
27 16	M	7 St. S. 4. 52. aft.	Venus is a morning star till Au. 6,
28 17	Tu		then an evening star to the year's end.
29 18	W	Ember Week.	Jupiter is a morning star till Apr. 25,
			then an evening star till Nov. 3,
			after that a morning star to the end

Observations in FEBRUARY.

M	Clock
D	bef. O

Still does the nipping cold prevail,
 Still pile the fire, still quaff your ale;
 The spirits nothing wastes like thinking
 Nor aught revives them more than drinking.

1	14m	2
6	14	31
11	14	39
16	14	28
21	13	59
26	13	15

1	1m	51	VII	IV	10	Now merry
2	2	46	25	35	11	lasses claim
3	3	41	24	36	12	your due,
4	4	30	22	38	13	'Tis Valen-
5	5	14	20	40	14	tine and
6	5	44	19	41	15	Leap Year
7	6	27	17	43	16	too.
8	7	15	15	45	F	Du Vall.
9	6	43	13	47	18	
10	7	52	11	49	19	
11	9	1	9	51	20	Now every
12	10	13	8	52	21	women,
13	11	26	6	54	22	child, and
14	morn.	4	56	23	23	man makes
15	0	39	2	58	24	a point of
16	1	48	VI	V	25	dining upon
17	2	54	58	2	26	pencakes.
18	3	54	56	4	27	Oh say ye
19	4	47	54	6	28	wights who
20	5	30	52	8	29	deal in flour,
21	6	7	51	9	30	How much
22	7	49	11	N		does this our
23	2	5	47	13	2	life devour.
24	8	17	45	15	3	
25	9	26	43	17	4	Harry
26	10	33	41	19	5	Van.
27	11	38	39	21	6	German
28	morn.	37	23	7		Princess.
29	0	36	35	25	8	

I began my last year's discourse with observing that authors, who write like me in a regular manner, cannot promise either the where or the when for any one particular action; that so many unexpected hindrances, and unforeseen accidents do hourly arise; that a man must be either a fool or an astrologer (two words of the same import) who pretends to tell you in one leaf, what he shall write in the next.

Had I the vanity to imagine, that I was an author of such established reputation, as to suppose, that my bare *ipse dixit* was sufficient to satisfy the world in that particular?—No.—I therefore gave by way of illustration a convincing proof; which lasted through ten pages.—And herein, it must be acknowledged, that I exactly copied my good old master, the immortal Euclid, who never proceeds one single step, without a demonstration.

Again.—What was the history of Tantarabohus, who had no backside; or Trissram Shandy's tale of the stranger who came post haste from the promontory of noses?—truly two excellent satires, upon the wild and extravagant excursions, of an idle curiosity.

MARCH last ~~xxx~~ Days.

11	Decl.
D	South.

Full Moon 8	} Day at {	6 Hours, 35 M. Aft.	1	7	11
Last Quarter 15		7 — 4 M. Aft.	6	5	15
New Moon 22		5 — 50 M. Aft.	11	3	18
First Quarter 30		3 — 36 M. Aft.	16	1	20
			21	North	
			26	2	36

☉ enters 19 Day, 9 h. 22 m. Night

1	19	Th	David.
2	20	F	Chad,
3	21	S	
4	22	G	2 Sun. in Lent.
5	23	M	'Twi. ends 7.26,
6	24	Tu	
7	25	W	Perpetua.
8	26	Th	Len. of d. 11.22.
9	27	F	Len. of n. 12.24.
10	28	S	Day incr. 3. 47.
11	29	G	3 Sun. in Lent.
12	M	M	Gregory M.
13	2	Tu	7 stars S. 3. 57.2
14	3	W	h se. 7. 59. aft.
15	4	Th	4 ri. 8. 58. aft.
16	5	F	8 ri. 5. 28. aft.
17	6	S	St. Patrick.
18	7	G	Midlent Sun.
19	8	M	
20	9	Tu	Day br. 4. 2.
21	10	W	Bened. ct.
22	11	Th	Twil. ends 8. 3.
23	12	F	Du. of Tw. 1. 59.
24	13	S	
25	14	G	5. Sun. in Lent.
26	15	M	
27	16	Tu	Day inc. 4. 55.
28	17	W	
29	18	Th	7 St. S 3. 4. aft.
30	19	F	Cam. Term ends
31	20	S	Oxford T. ends

THE DREAM.

A Poem.

Full true it is, that many a theme,
Under similitude of dream,
Is to the public much more taking,
Than if supposed 'twas acted waking;
And for the author 'tis more easy,
And far the readier way to please ye,
Not ever (in or out of season)
To make appeal to sense and reason;
But let poor Reason now and then
Go sleep; and Fancy guide the pen.
Fancy, who leads what time the
moon a
Bright planet, call'd by poet *Luna*,
Resplendent shines, and shows a face
Broad as— a metaphor, to grace
My verse would suit.—The best I

Edw. K. West Sax,

can make,

You're welcome to.—Suppose a pan-
cake.Bright Fancy rules, what time the
mornApproaches near her highest noon;
And Chloe stript into her smock,

[Lady day.]

(We'll call it night at twelve o'clock)
Has gently laid her down to rest,
And dreams of pleasures unpossess.
At last subdued by fancy's charms,
Turns on her back, and spreads her
arms.

M	Clock
D	bef. ©

I	12	9
6	11	20
11	10	7
16	8	36
21	7	5
26	6	33

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APRIL hath xxx Days.

[M] [D] [Dec North.]

Full Moon 7 } Day { 7 Hours 22 M. Morn.
 Last Quarter 14 } at { 1 — 16 M. Morn.
 New Moon 21 } { 7 — 36 M. Morn.
 First Quarter 29 } { 10 — 2 M. Morn.

1	4	55
6	6	4
11	8	40
16	10	28
21	12	11
26	13	40

☉ enters 8 19 day at 10 H. 4 M. Morn.

1	21	G	Palm Sunday.	An Corydon, approach not near
2	22	M	4 ris. 7. 43. aft.	The fighting, smiling, trembling fair,
3	23	Tu	Rich. B. of Chi.	But pleas'd in the reflection, see,
4	24	W	St. Ambrose.	How strongly fancy pleads for thee.
5	25	Th	Maund. Thurs.	[Old Lady Day.]
6	26	F	Good Friday.	Fancy, who now presides in scull,
7	27	S	Tw. ends 8. 43.	With Brains (Heav'n knows) not
8	28	G	Easter Sunday.	over full.
9	29	M	Easter Monday.	Makes beggars monarchs, cowards
10	30	Tu	Easter Tuesday.	hectors;
11	31	W		And hungry curates dream they're
12	A	Th	Day. inc. 5. 57.	rectors.
13	2	F		Fancy, who leads the rhiming Asses
14	3	S	7 St. S. 3. 5. aft.	To pastures bare on hill Parnassus;
15	4	G	Low Sunday.	Poets, who make the Gods to hecst
16	5	M		Like mortal wight, when drunk with
17	6	Tu	4 ri. 6. 36. aft.	nectar.
18	7	W	Ox. & Ca. T. be.	Poets! who have each subject wrote on,
19	8	Th	Alphege	With stocking one, and ne'er a coat on,
20	9	F		Poets! whom nothing thocks so much
21	10	S		As bill of dun, or bailiffs' touch,
22	11	G	2 Sun. aft. East	Fancy, to these in frolic, kind,
23	12	M	Fr. E. in 15 d. 1 r.	(While misers start at gust of wind.)
24	13	Tu	Dur. Tw. 2. 23.	Presents in sleep the needy bard,
25	14	W	St. Mark. T. b.	With a kind complimentary card,
26	15	Th		[St. George.]
27	16	F	Len. of n. 9. 24.	Begging he'll look his works all up;
28	17	S		[Prs. Mary born.]
29	18	G	3 Sun. aft. East.	Go, read them o'er, and dine and sup,
30	19	M	Fr. E. in 1 w. 2 r.	The happy wretch, at this kind
				greeting,
				Snaps his thin jaws, and draws his
				eating.

Observations is APAIA.

Mr. Clock
D. def. 6

The adage says that April show's
Productive are of May's gay flower's
Gentle month, then weep away;
May thy tears shall well repay.

13 42
6 2 12
11 0 48
16 After.
27 1 34
26 2 29

12	m	32			
23		6	30	30	11
33		37	28	32	12
44		5	26	34	13
54		31	24	36	14
64		58	22	38	15
7	rise		20	40	16
8	2	4	18	42	17
9		34	16	44	18
10		51	14	46	19
11		56	12	48	20
12	morn.		10	50	21
13		53	8	52	22
14		43	6	54	23
15		23	5	55	24
16		56	3	57	25
17		26	1	59	26
18		53			27
19		19	57	3	28
20		47	55	5	29
21	sets		53	7	30
22	8 a	25	51	9	
23		25	50	10	
24		22	48	12	
25		13	46	14	
26		58	44	16	
27	morn.		42	18	
28		37	40	20	
29		12	39	21	
30		43	37	23	

All Fool
day.
Ranter.
Sluttish
Susan.

The silly
trick that's
now so com-
mon,
Of April fool
with man or
woman
Most child-
ish is,
we hope
therefore
Ere long the
folly will be
o'er.
Since which
is biggest
can't be said,
The fool
who makes
or he who's
made.

Lately, in this performance, the
unwary youth is warned of the
deceitful allurements of the fair
sex, in these short, though senti-
mental lines.

For she like you alert could move
And sweetly pur the song of love;
Or could, her lover to secure,
Hold close her tail and look demure.

If any should object against the
comparison, be it remembered,
that it is the Fabulist's preroga-
tive, and the custom of ages. Thus
the drunkard is compared to a
swine, the sop to a monkey, the
crafty to a fox, and the stupid to
an ass.—If therefore the intri-
guing part of the fair sex, be
compared to a cat, for the reasons
recited in the verses above; it was,
because my extreme delicacy would
not admit the very idea of a Bitch.

In short, this story is a true
picture of the follies of this stage
of existence, on which we act;
of the vanities and fluctuating
vicissitudes of human life; and
consequently a good piece of
morality, and as such, must be
looked upon as far preferable
to mischievous follies of polem-
ical divinity; and it is devoutly
to be wished, that all those who
have read the tale of my last
performance, will buy this for
the sake of the annotations.

MAY hath xxvi Days.

M ☉ Decl
D | North

Full Moon	6	} Day {	5 Hours 16 M. Aft.	1	15	22
Last Quarter	13		7 — 44 M. Morn.	6	16	48
New Moon	20		9 — 59 M. Aft.	11	18	7
First Quarter	29		1 — 43 M. Morn.	16	19	19
☉ enters II 20day at 10 h. 37 m. Morn.						
				21	20	22
				26	21	17

1	20	Tu	St. Ph. & St. Ja.	Heroes, who under great commanders
2	21	W	Fr. 4. 13. mor.	Have boldly fought in fields of
3	22	Th	In. of the Cross.	Flanders ;
4	23	F	♂ fet 3. 5. mor.	And risk'd your precious lives in battle,
5	24	S	♀ ris. 3. 50. mo.	Where bullets fly and cannons rattle.
6	25	G	4 Sun. aft. East.	Or ye, who ventured life and breath
7	26	M	Fr. E. in 1 m. 3 r.	[Ev. ante Port Lat.]
8	27	Tu	Tw. ends 10. 23.	And blood, and brains, on Hounds-
9	28	W	Du. of Tw. 2. 54.	low-heath ;
10	29	Th	Len. of d. 15. 20.	Say, did not fancy spread before ye,
11	30	F		Mountains of Gold, or wreaths of
12	1	M	Ni. 8. 34. long.	glory ? [death,
13	2	G	Rogation Sund.	Yet these when summoned down by
14	3	M	Fr. E. in 5 w. 4 r.	[Old May day.]
15	4	Tu	7 St. S. at 0. 2. a.	As heroes must resign their breath ;
16	5	W		Else those, who in poetic vein
17	6	Th	Holy Thurs.	Shine in the elegiac strain,
18	7	F	On m. of asc. 5 r.	Must part with theirs.—I'll tell you
19	8	S	Q. Ch. b. 1744.	why : [die ?
20	9	G	Sun. aft. Ascen.	How can those live, if these don't
21	10	M	East. Ter. ends.	[Dunstan.]
22	11	Tu	Prs. Elizab. be.	And where's the man, pray let me
23	12	W		know it,
24	13	Th	Oxf. Ter. ends.	Who would not die to save a poet ?
25	14	F		Yes ;—When their grand career shall
26	15	S	Aug. 1 Ab. Can.	stop.
27	16	G	Whit Sunday	In honour's bed,—or at the drop ;
28	17	M	Whit. Mond.	Do thou bright fancy paint their fate ;
29	18	Tu	K. Cha. II. rest.	By heav'n its fine ;—by Jove 'tis
30	19	W	Ember Week.	great !
31	20	Th		Venerable Bede. Cam. T. di.
				Say, what is life compared to fame ?
				Who would not die to leave a name,
				And evermore, for honour's sake,
				Swim like a frog in Stygian lake ?

Observations in MAY 1792.

1 D 1 aft. 0

Phaëus bright-eyed God of light
Has almost reach'd his northern height;
Then he southward hastens down,
While Flora fies at winter's frown.

1	3	12
6	3	41
11	3	47
16	8	58
21	3	44
26	3	17

I	2 m 12	IV	VII	11	Queen of
2	2 30	34	26	12	May.
3	5 5	32	28	13	
4	3 32	30	30	14	Lads and
5	4 0	28	32	15	L. fies
6	2 25	27	33	16	haste away.
7	2 38	25	35	17	In jocund
8	4 48	23	37	18	mood to
9	10 51	22	38	19	sport and
10	11 42	20	40	20	play.
11	12 19		41	21	Nymphs
12	0 27	17	43	22	and Swains
13	1 4	16	44	23	to Cupid's
14	1 54	14	46	24	rites;
15	2 1	13	47	25	Flora calls
16	2 28	11	49	26	and Love
17	2 55	10	50	27	invites.
18	3 30	8	52	28	
19	3 48	7	53	29	Will. Goff,
20	3 56	6	54	30	Humphrey;
21	4 16	4	56		Peck,
22	9 9	3	57		Rapscallion.
23	9 57	2	58		Tantara-
24	10 38	1			bobus,
25	11 44	59			Jack Straw,
26	11 47	58			Dick Heme,
27	12 57				Black Moll.
28	0 14	56			
29	0 40	55			
30	1 5	54			
31	1 22	53			

Having thus far achieved this grand affair, (for what is it which time, patience, and industry will not accomplish,) we will now return to our company, whom we left in the comfortable Mansion of honest Griffin. — And here, as a ten Years Correspondence, and upwards, has been mutually held between my kind Readers and myself, I shall not formally begin exactly where I left off, but referring that to another opportunity, only tell you that Mr. Martens, and Mrs. Griffin had now joined the good company. Trigon had been expatiating upon the celestial dance of the Spheres, as set to music by *Nicholas Copernicus*; and was now observing that they did not make the figure in an exact circular motion; but that their Orbits were truly elliptical. Griffin, who did not well understand the Term, desired an explanation: Trigon, rather nettled to find himself interrupted in his learned and philosophical harangue, replied somewhat abruptly, — do you know an Egg when you see it? Here (to mend the matter) Sam who broke into the discourse with a whole string of Proverbs. Oh yes, saith Sancho; You know very well it is a common saying, that he who does not know what is good for himself, never

JUNE hath xxx Days.

M D Dec North.

Full moon	5	} Day {	0 hour 53 min. morn.	1	22	13
East Quarter	11		34 min. Aft.	8	22	45
New moon	19		43 min. Aft.	27	23	9
West Quarter	27		17 min. Aft.	16	23	23
☉ enters ☿ 20 day, 7 hour 19 min. after.				27	23	27
				26	24	21

1	21	F	Nicomede	Fancy! to thee alone belong.	1
2	22	S	St. S. 10h. 50m. m.	The Painter's Skill, the Poets song:	
3	23	G	Trinity Sunday	Mor. of H. T. 1 ret.	
4	24	M	K. Geo. III b: 1738	Boniface	
5	25	Tu	Pr. E. August b.		
6	26	W	Oxford Term begin	Cloud topt hills, and humble Yales	
7	27	Th	Corpus Christi.	Grotto's cool'd with gentle Gales;	
8	28	F	Trinity Term beg.	Gardens trim, with Flowers crown'd;	
9	29	S		Pastures rich, where flocks abound;	
10	30	G	1 Sun. aft. Trin.	Prs. Amella born	
11	31	M	St. Earnabas	In 8 days Holy Trin. 3 ret.	
12	June	Tu	Length of day 16.30.	Gentle Rivers, rolling Seas,	
13	1	W	Night 7h. 28m. lon.	All that can surprize or please;	
14	2	Th	Day in. 8 48.	Fancy bids, and see arise	
15	3	F	Pol. ft. nor. 5. 16 m.	The Landscape gay before our Eyes.	
16	4	S		St. Alban	
17	5	G	2 Sun. aft. Trin.	Deck'd with many a rural spot	
18	6	M	In 15 d. of H. T. 34.	With here a Tower, and there a Cot.	
19	7	Tu		Or, should the wee-sought Matron	
20	8	W	Trins. Ed. K. W. S.	chuse,	
21	9	Th	Longest Day	A subject for the tragic Muse;	
22	10	F	♂ sets at 6. 1. mo.	Behold the gaudy Vision fall,	
23	11	S	♀ rises at 2. 36 m.	And spectres rise at fancy's call;	
24	12	G	3 Sun. aft. Trin.	St. John Baptist	
25	13	M	In 3 W. of H. T. 4 Re.	Goddess; to thee belongs the Art	
26	14	T	No real Night.	To freeze, or melt the human heart;	
27	15	W	Trinity Ter. ends	To raise, or banish gloomy Care,	
28	16	Th		To call a Smile or force a Tear.	
29	17	F	St. Peter		
30	18	S			

Observations in JUNE.

Clock
aft. Sun.

Days are long, and hot, withal,
Now avoid all Beer, that's small;
Liquor weak will chill the Blood,
Liquor strong will do it good.

1 2 29
6 1 39
11 0 42
16 before
21 2 25
26 2 29

1	57	III	VII	3	Spanish	eat Eggs and Bacon, — It is a poor
2	26	51	9	14	Rate,	Pudding that has never an Egg in
3	2	50	10	15	Flying Ser	it — and when anything has pleas-
4	3	43	11	16	pent.	ed a Man, does not he say, that's
5	riser.	49	11	F	Hurlo-	Egg and milk to me? Again, as
6	9	32	12	18	thrumbo.	dear as an Egg & Penny, is as com-
7	10	20	13	19	Who to ale-	mon as all covet all lose. — After
8	11	1	13	20	house re-	a storm comes a calm. A piece
9	11	36	14	21	pair,	of a Kid is worth two of a Cat.
10	morn	46	14	22	When the	After meat Mustard — fast bind,
11	0	4	15	23	Fields de-	fast find. — First come, first serv'd
12	0	29	15	23	mand their	— New broom sweeps clean. —
13	0	55	16	25	And for a	Soon ripe, soon rotten. — Rob Pe-
14	1	21	16	25	Tankard	ter to pay Paul. — And the blind
15	1	48	16	26	leave their	eats many a fly. — besides you
16	2	18	16	27	Hay,	know the old saying. — An Egg
17	2	50	17	28	Well ought	and a Nut, you may eat with a
18	3	25	17	29	to starve	sun.
19	3	43	17	30	another day.	He was proceeding at the rate
20	8	33	17	N		of fifty Proverbs per Minute,
21	9	12	17	2	Hapless is	when Trigon, who was now out
22	9	43	17	3	the Man	of all patience, stopped his Career
23	10	14	17	4	who's spent	by observing the Impropriety of
24	10	40	17	5	What should	interrupting a discourse of so high
25	11	7	17	6	pay his	and sublime a nature, with an
26	11	31	17	7	Quarter's	unconnected heap of coarse rustic
27	11	57	17	8	Rent.	Proverbs:
28	morn	44	16	9		I cry your mercy, quoth Sancho,
29	0	21	16	10		every one to his trade, problems
30	0	52	15	11		are your property. Proverbs mine;
			15	12		you can have no more of a Out
						than Her Skin; as the old Cock
						eroweth, so the young one learns
						— I did not begot myself. — He
						that did could tell me no more
						than he knew. — The Horse can't
						void beans, that never eat any

JULY hath xxxi Days.					M D	© Decl. North.
Full Moon the	4	} Day { at {	7 Hours 2 min. Morn.	1	23	4
Left quarter the	11		46 min. Morn.	4	12	37
New Moon the	19		47 min. Morn.	10	12	0
First quarter the	26		53 min. Night.	18	12	14
☉ enters ♈. 22 day, at 6 hours 11 m. Mdr 1.					23	20
				26	19	15
1	20	G	Sun. aft. Trip.	Altho' this premis'd I fancy not		1
2	21	M	Vilit. of B. V. M.	My gentle Reader will allow		5
3	22	Tu	Cam. commencem.	Poor perblind Reason now and then		
4	23	W	Tras. of St. Martin	To sleep, while Fancy guides the		Pen.
5	24	Th	Old midsummer da.	The Author then gets on space,		2
6	25	F	Cam. T. ends	When judgment's sought to do with		case,
7	26	S	Thos. a Becket	But who by reason led, indom		8
8	27	G	Sun. aft. Trin.	And writes and plods, and plods and		writes;
9	28	M	Oxford Aft.	With Genius but of Statute lowly,		1
10	29	Tu	All day or Twilig.	He must go on confounded slowly,		1
11	30	W		And lastly, should he wait for what;		By heav'n the Book will as'er be
12	July	Th	Day 16h. 12m. lon.	wait.		
13	1	F	Night 7. 50. long			
14	2	S	Oxf. Term ends			
15	3	G	Sun. aft. Trin.			
16	4	M				
17	5	Tu	h rises 1. 18. aft.	While the brisk Bard by fancy led,		
18	6	W	4 sets 10. 55. aft.	Ne'er stays till Reason's brought to		bed;
19	7	Th	3 rises 10. 28. aft.	But brisk and airy, plith and gay,		
20	8	F	Margaret	He mounts his Muse and drives		away,
21	9	S				
22	10	G	Sun. aft. Trin.			
23	11	M				
24	12	Tu				
25	13	W	St. James	And leaves the begging Qid of		
26	14	T	St. Anna	Phoebe		
27	15	F	Len. of day 15. 34.	To trifling Bards, the Song of		
28	16	S	Len. of Night 8. 28	Rebus.		
29	17	G	Sun. aft. Trin.	He mounts I say --- that is suppo		
30	18	M	Pa. St. N. 3. 58 m.	He writes in Verse. --- But if in Pro		
31	19	Tu		He writes; --- yet warm'd by Fancy's		
	20			flame.		
				It comes to pretty near the same.		

Decl. North.		Observations in JULY.		M	Clock
				D	bef. ☉
1	For cloudless skies the Farmer's praying,	1	3	29	
2	Sue and Ralph on Haycocks playing;	6	4	21	
3	But Sue be warn'd by Nancy's tale,	11	5	5	
4	How men are false and women frail,	16	5	38	
		21	6	58	
		26	6	4	
1	1m 29	III VIII	13	Think not	If my Father was no Scholar; I
2	2 14 46	14 14	14	when Hay	had not the training of him; so
3	3 6 47	14 15	15	is all got in,	blame worthy, and set the Saddle
4	4 rises 48	12 F	16	To loiter	upon the right horse.—'Tis not
5	5 8 a 50 48	12 17	17	then you	every one's luck, to be born with
6	6 9 28 49	11 18	18	may begin,	his head in a Bookcase.—and if
7	7 10 1 50	10 19	19	Nor deem	you don't understand my <i>Lingo</i> , I
8	8 10 29 50	10 20	20	your La-	know as little of yours,—so the
9	9 10 56 51	9 21	21	bours at an	longer East, the shorter West.—
10	10 11 23 52	8 22	22	end,	And the odds are even on both
11	11 49 53	7 23	23	But to the	sides.
12	12 morn 54	6 24	24	fields repair,	All that I was endeavouring
13	13 0 16 55	5 25	25	Your Har-	(said Trigon in a Tone somewhat
14	14 0 48 56	4 26	26	vest labours	more moderate,) was to give the
15	15 1 22 57	3 27	27	now attend,	Gentleman a true Idea of an El-
16	16 2 3 58	2 28	28	The Corn	lipse; which Idea once compre-
17	17 2 50	29	29	demands	hended, he would then be able
18	18 3 40	30	30	your care.	to delineate in his own mind the
19	19 3 40	31	31		form of the Orbit of any Planet,
20	20 2 a 14 3	57 2	2		that moves in the Regions of im-
21	21 8 43 4	56 3	3		menfe space,—whereas, your long
22	22 9 9 5	55 4	4		string of Proverbs have prov'd no-
23	23 9 34 6	54 5	5		thing at all.
24	24 9 57 7	53 6	6		That is a mistake of yours,
25	25 10 22 9	51 7	7		quoth Griffin.—It has prov'd that
26	26 10 52 10	50 8	8		much may be said to little pur-
27	27 11 24 11	49 9	9		pose.—and that the sum total of
28	28 morn 13	47 10	10		many Words often amounts to
29	29 0 3 14	46 11	11		nothing at all, added Trigon.—
30	30 0 50 15	45 12	12		however to go on with my defi-
31	31 1 44 16	44 13	13		nition,—In Order to have a clear
					Apprehension of which, you must
					first be made to understand what
					is meant by the <i>Ordinates</i> , the
					<i>Abscissa</i> , the <i>Latus Rectum</i> , and
					the <i>Latus Transversum</i> , being
					terms established, and used by all
					the Writers upon Conic Sections.

August hath xxxi Days.

M D. Dec.
North.

Full Moon	2	} Day at {	2 Hours	11 Min. Aft.	1	14	48
Last Quarter	9		2	55 Min. Aft.	6	16	28
New Moon	17		6	41 Min. Aft.	11	14	1
First Quarter	25		7	26 Min. Morn.	16	13	28
Full Moon	31		10	29 Min. Night.	21	11	49

☉ enters ♍ 22 day, at 0 hour 35 Min. Aft.

26 10 6

1	21	W	Lammas day	For be his Writings ne'er to dull,
2	22	Th	7 St. S. 6. 36 morn	Yet once a Month the Moon's at full;
3	23	F	½ rif. at 10. 10 aft.	And spite of all that can be said,
4	24	S	2 sets 9. 52 aft.	Yet once a Month he shall be read,
5	25	G	9 Sun. aft. Trin	In proof of this, I here shall quote
6	26	M	Trans. of our Lord	A Book, by Tinker <i>Bunyan</i> wrote;
7	27	Tu	Name of Jesus	Princess Amelia born
8	28	W	Day br. at 1h. 51m.	This Piece, <i>The Pilgrim's Progress</i>
9	29	Th	Twil. ends at 10.5	nam'd
10	30	F	St. Lawrence	How it through all the Land was
11	31	S	Dog Days end	fam'd;
12	Aug.	G	10 Sun. aft. Trin	Pr. Wales born 1762
13	1	M	Nightgh. 22m long	And is,—and will; (I make no
14	2	Tu	Day decreas'd 1. 55	doubt on't)
15	3	W	Assumption	Till Hell has no Fanatics out on't
16	4	Th	D. of York born	While TAYLORSON, and SOUTH,
17	5	F	7 stars South 5 45m	and SCOTT
18	6	S	½ rises at 9 15 aft.	Who study'd Sense, may lie and rest;
19	7	G	11 Sun. aft. Trin	This Book through ev'ry Shire was
20	8	M	3 sets 8 57 after	sought up;
21	9	T	D. of Clarence born	And thousands I'm inform'd were
22	10	W		bought up
23	11	Th	2 sets at 7 20 after	By Calvin's Saints, in that bright
24	12	F	St. Bartholomew	hot land
25	13	S	Twil. ends at 9 13	Full north of England, called Scot-
26	14	G	12 Sund. aft. Trin	land,
27	15	M		Whose cleanliness but few can
28	16	T	St. Augustine	match;
29	17	W	St. John Bapt. Na.	Where Folks were never known to
30	18	Th	Day dec. 2 55	scratch;
31	19	F		And yet this much esteemed Book,
	20			Who loses time on it ed look;
				Will find the Verse, the Sense of the
				Theme
				Is all a droll, and all a Dream.

Observations in AUGUST.

M.	Clock.
D.	be. °

To work, rise with the rising Sun;
Nor cease till he his race has run:
Remember Winter in the rear
Will come to close the falling Year.

1	5	37
11	4	41
16	3	45
21	2	37
26	1	18

1	5	37	IV	22	38	F	Dorothy
2	7	25	24	36	17	Fiddling	Doolittle,
3	8	28	25	35	18	Dick,	Long Meg,
4	8	57	27	33	19	Piper Joe,	
5	9	26	28	32	20	Old Noll,	
6	9	53	30	30	21	Harry Vane,	
7	10	20	32	28	22		
8	10	51	34	26	23		
9	11	24	35	25	24	Who idle	Griffin was so much perplexed
10	morn.	37		23	25	now is well	with this, as he was with <i>Père</i>
11	0	2	39	21	26	deserve	<i>du Moulin's</i> sixteen Logical heads,
12	0	46	41	19	27	While	translated by <i>Nathaniel Deslorme</i> ,
13	1	35	42	18	28	others feast	and printed by <i>Nicholas Bourne</i> , at
14	2	30	44	16	29	to sit and	<i>the Royal Exchange, London</i> , and
15	3	28	46	14	30	starve.	heartily wished there had been no
16	3	57	48	12		Labour con-	such thing as an Ellipsis, in the
17	4	16	50	10	2	duces much	Whole Circle of the Sciences.
18	7	41	51	9	3	to health,	And so said he to explain one
19	8	6	53	7	4	The only	crabbed Word, I am, I suppose,
20	3	31	55	5	5	Poor Man's	to be plagued with two brace ten
21	9	0	57	3	6	way to	times harder. — Why this is like
22	9	30	59	1	7	Wealth,	—driving out the devil by Belze-
23	10	5			8	And keeps	bub, quoth Sancho.
24	10	49	2	58	9	him from	Look you, said Griffin, you will
25	11	41	4	56	10	the bitter	never drive it into my head; add
26	morn.	6		54	11	Pill	if you force it down my throat,
27	0	41	8	52	12	Of Physic	my stomach will not digest it. If
28	1	51	10	50	13	and the	therefore I must have it, your best
29	3	5	12	48	14	Doctor's	way will be to administer it by way
30	4	24	14	46	F	Bill.	of a Clyster. and then the first
31							Motion I have, will give me a

Griffin was so much perplexed with this, as he was with *Père du Moulin's* sixteen Logical heads, translated by *Nathaniel Deslorme*, and printed by *Nicholas Bourne*, at *the Royal Exchange, London*, and heartily wished there had been no such thing as an Ellipsis, in the Whole Circle of the Sciences.

And so said he to explain one crabbed Word, I am, I suppose, to be plagued with two brace ten times harder. — Why this is like — driving out the devil by Belzebub, quoth Sancho.

Look you, said Griffin, you will never drive it into my head; add if you force it down my throat, my stomach will not digest it. If therefore I must have it, your best way will be to administer it by way of a Clyster. and then the first Motion I have, will give me a Chance of getting fairly shut of it.

Trigon, who found himself much hurt by this reply; acted a wise Man's part, as he could not speak with *Candour*, he held his Tongue.

Syntax, who had for some time been watching for an opportunity to display his own abilities, snatched the happy Moment, and addressing himself to Griffin, spoke as follows.

My friend's method of Explanation is not unlike that of a professor of Languages, who being asked

SEPTEMBER hath xxx Days.

M	Decl.
D	North.

Last Quarter	8	} Day at {	7 Hours	9 Min. Morn.	1	7	57
New Moon	16		9	18 Min. Morn.	6	6	6
First Quarter	23		7	48 Min. Aft.	11	4	12
Full Moon	30		9	6 Min. After.	16	2	17

Centes 22 day at 9 Hours 4 min. morn.

21	0	2	20
26			South

1	21	S	Giles
2	22	G	13 Sun. aft. Trin.
3	23	M	7 sta. at 4. 43. mor.
4	24	Tu	h rises at 8. 11 eft.
5	25	W	4 sets at 8. 1. aft.
6	26	Th	8 sets at 6. 53 aft.
7	27	F	Enurchus
8	28	S	Nat. of V. Mary
9	29	G	14 Sun. aft. Trin
10	30	M	Twil. ends at 8 29
11	31	Tu	
12	Sep.	W	Dura. Twil. 2 4
13	2	Th	
14	3	F	
15	4	S	Day decr. 3 57
16	5	G	15 Sun. aft. Trin.
17	6	M	Lambert.
18	7	Tu	7 star. S. 3. 48 morn
19	8	W	Ember Week
20	9	Th	4 sets at 7. 13 aft.
21	10	F	St. Matthew
22	11	S	K. Geo. III. crown.
23	12	G	16 Sun. aft. Trin.
24	13	M	8 sets at 6. 27 aft.
25	14	Tu	Holy Cross
26	15	W	St. Cyprian
27	16	Th	Twil. ends at 7 51
28	17	F	
29	18	S	St. Michael
30	19	G	17 Sun. aft. Trin

Lond. b. 1666. O. S.

Again, to shew how much avails
Bright Fancy's aid, when Reason
fails;
When even Logic stands in doubt
Of Argument, to help you out;
And Rhet'ric stupid stops, quite
mute,
With not one Figure that will suit;
I'll tell you of a Scotch Divine:
Who has not heard what language
fine,
And gracious Words of richest
worth,
From leathern Lungs of Holder-
forth,
Have flowed, while they the same
apply'd,
Precious as *Brimstone* to the Hide.)
So salutary and so winning!
To cure them of the itch of sinning;
Prepar'd alone for their Salvation,
By order of Predestination;
Long before they this Stage were
brought on,
Or ev'n the World was made or
thought on;
Sin's scurf to cleanse, and Grace to
rub in,
Till all the Audience fell a scrub-
bing?

Prince's Royal born.
St. Jerome

Observations in SEPTEMBER.

M	Clock
D	aft. Sun
1	5 29
6	28 7
11	3 50
16	5 34
21	7 18
26	9 0

Now with Sickle, Fork and Rake,
Each his destin'd Work must take;
While warbling Songsters on each spray,
Soothe the labours of the day.

1	D rife.	V	VI	16	See how	the meaning of an uncouth English
2	7 a 30	18	42	17	great things	Word, which he had made very
3	7 58	20	40	18	spring from	free with, replied thus: This
4	8 26	22	38	19	small	word, said he, is the same in mean-
5	8 57	23	37	20	things,	ing with such a Word in the La-
6	9 30	25	35	21	Labour gets	tin, as applied by Virgil in the
7	10 8	27	33	22	Money,	fourth Book of his <i>Æneids</i> , in
8	10 51	29	31	23	Money all	which he seems to have an Eye to
9	11 38	31	29	24	things,	a Greek Word, which Homer
10	morn 33	33	27	25	Do not Fools	makes use of in his seventh <i>Iliad</i> ;
11	0 30	35	25	26	with store	but however it's true sense is best
12	1 26	37	23	27	of Pence,	discovered by comparing the He-
13	2 26	39	21	28	Lord it over	brew Word, from whence it is de-
14	3 28	41	19	29	Men of	rived, to another, in the Arabic
15	4 33	43	17	30	Sense?	language, which is analogous to it.
16	D fets.	45	15	N	Wit when	However, continued Syntax, as
17	6 a 44	47	13	2	poor all	my Friend's English definition
18	7 12	49	11	3	Men de-	appears no way satisfactory, give
19	7 42	51	9	4	pise;	me leave to present you with an
20	8 16	53	7	4	While Mo-	Irish one, which for it's simplicity
21	8 57	55	5	5	ried Fools	and conciseness, is, in my opinion,
22	9 44	57	3	6	are counted	far preferable; take it as follows:
23	10 42	59	1	7	Wife.	An Irish Mathematician being
24	11 45	VI	V	8		interrogated what an Ellipsis was,
25	morn 3	57	9	9		replied as follows:
26	0 57	4	10	10		By St. Patrick, said he, but will
27	2 11	6	11	11		tell you in a few Words—
28	3 28	8	12	12		An Ellipsis is a long Circle in-
29	4 43	10	13	13		scribed in a Square, whose two
30	5 59	12	14	14		opposite sides are shorter than the
			15	15		two other two.
			16	16		This Definition gained univer-
			17	17		sal applause to the great mortifi-
			18	18		cation of Trigon.—
			19	19		Griffin, now released from his
			20	20		perplexity, cheerily rubbed his
			21	21		hands together and insisted on a
			22	22		fresh Bottle, and Mr. Martext, up-

Nose Oliver,
Jack Brad-
man,
Charon,
Tyburn,

OCTOBER hath xxxi Days.				M	☉ Decl.
				D	South
Last Quarter	8	} Day	2 hours 5 min. Morn.	1	3 33
New Moon	15		10 56 min. Aft.	6	5 29
First Quarter	22		8 12 min. Aft.	11	7 23
Full Moon	29		10 23 min. Aft.	16	9 15
☉ enters M 22 day at 5 hours 1 min.				21	11 3
				26	12 47

1	20	M	Remigius	But as the Muse makes no pretence
2	21	Tu		Scotch Presbyterian Eloquence,
3	22	W	Day dec. 5h 7m	So wond'rous great, to sing in lays
4	23	Th		Sublime and equal to it's praise;
5	24	F	7 stars S. 2 49 morn	She only begs to lay before you,
6	25	S	Faith	In simple strain a simple story.
7	26	G	18 Sun. aft. Trin.	The learn'd and pious Mr. Smith,
8	27	M	24 sets at 6 16 aft.	At lecture held in holy Kirk,
9	28	Tu	St. Denny's	
10	29	W	Ox. and C. T. beg.	Old Michaelmas day
11	30	Th		Was holding forth th' all-seeing
12	Oct. 1	F	Day break at 4 41	Eye
13	2	S	Transf. of K. Ed.	Of him, who reigns above the sky,
14	3	G	19 Sun. aft. Trin.	Which sees our Actions, knows our
15	4	M	Length of day 10 36	Hearts
16	5	Tu		Our outward, and our inward
17	6	W	Etheldred	Parts;
18	7	Th	St. Luke.	And comprehends both first and last,
19	8	F	Pole star N. 11 11 a	Of present, future, and the past,
20	9	S	7 stars S at 1 53 m.	Till in Celestial Transport lost
21	10	G	20 Sun. aft. Trin.	In wonder and Amusement lost
22	11	M	1/2 rif. at 5 8 aft.	In luckless hour the holy Man,
23	12	Tu	24 sets at 5. 22 aft.	In strain extatic, thus began
24	13	W	3 sets 6 50 aft.	
25	14	Th	K. Geo. III. ac.	Crispin
26	15	F	K. Geo. III. procl.	
27	16	S	2 sets at 5 41 aft.	St. Simon and Jude
28	17	G	21 Sun. aft. Trin.	
29	18	M	Twilight ends 6 48	Created Beings whatsoever
30	19	Tu	Dar. Twil. 1 58	They be; with something we com-
31	20	W		pare,

Observations in OCTOBER.

11	Clock
10	aft. Sun.

Now Barns are fill'd and Fields are bar'd,
And Harvest Supper is prepar'd:
While Swains proclaim, with loud huzzas,
The Farmer's joys, the Reaper's praise.

1	10	38
6	12	7
11	13	16
16	14	32
21	15	23
26	15	57

1	D rises	V	V	15	Robin
2	7 2 4	16	44	16	Goodfellow
3	7 37	18	42	17	Colling
4	8 13	20	40	18	Dick,
5	8 53	22	38	19	Rainbro.
6	9 38	24	36	20	Tom Train,
7	10 29	26	34	21	Far For-
8	11 23	28	32	22	est.
9	morn	30	30	23	
10	0 22	32	28	24	He who
11	1 23	34	26	25	catches his
12	2 27	36	24	26	Wife in ano
13	3 33	38	22	27	ther Man's
14	4 42	40	20	28	bed,
15	D sets	42	18	N	has great
16	5 25	44	16	2	reason to
17	6 24	45	15	3	think that
18	7 3	47	13	4	a Where he
19	7 49	49	11	5	has wed.
20	8 43	51	9	6	Though he
21	9 45	53	7	7	may'n't be
22	10 52	55	5	8	a Cuckold.
23	morn	57	3	9	as some may
24	0 5	59	1	10	divine,
25	1 19	VII	IV	11	Yet if that
26	2 34	3	57	12	no proof,
27	3 48	4	56	13	it's a very
28	5 2	6	54	14	bad Sign.
29	D rises	8	52	F	
30	5 38	10	50	16	
31	6 11	12	48	17	

on being asked his Opinion, divinely declared, that it was like Apples of Gold in Pictures of Silver; or convincing Grace marching forward, with the keen Sword of demonstration; while Converting Grace, like Tobit's dog, followed close at his heels.

Mrs. Griffin honestly declared, that though the subject had all along appeared to her like Cream in a bewitched Churn; yet upon good Mr. Martext's spiritualizing it, it had immediately brought forth the Butter of gracious refreshment, and that she was extremely edified.

Griffin now pushed the Glass around with the greatest hospitality, and upon Sancho's not obeying Orders with that speed which he wished, he bad him be sharp. Sancho, immediately took off his Glass, and looking wishfully on Griffin, said Hunger will break through Stone Walls, but it can't eat them, and sharpness, though in a Knife's Edge, was useless where there was nothing to cut at: the first thing we learn is to stick, the second is to eat, and once a use, ever a Custom. Learn to live as you wish to die.—Many Men, many Minds,—and he who wishes to die with an empty Stomach is not of the same opinion that I am.

He ceased.—and Mr. Martext gravely replied;—*The Proverbs of Sancho are ended.*

NOVEMBER hath xxx Days.

M D Dec. South.

Last Quarter	6	Day at }	10 hour 35 min. aft.
New Moon	14		16 min. Morn.
First Quarter	21		52 min. morn.
Full Moon	28		15 min. Aft.

☉ enters ♄ 21 day at 1 hour 13 min. Aft.

1	14	45
6	16	17
11	17	43
16	19	0
21	20	9
26	21	9

1	21	Th	All Saints.
2	22	F	Pr. Edw. born
3	23	S	Prs. Sophia born
4	24	G	22 Sun. aft. Trin.
5	25	M	Powder plot 1605
6	26	Tu	Leonard
7	27	W	
8	28	Th	Prs. Aug. Soph. b.
9	29	F	Lord Mayor's day
10	30	S	☿ sets at 6 46 morn.
11	31	G	23 Sun. aft. Trin.
12	Nov.	M	On mor. St. M. 2
13	2	Tu	Britius
14	3	W	Twilight ends 6 25
15	4	Th	Machutus
16	5	F	
17	6	S	Hugh B. of London
18	7	G	24 Sun. aft. Trin.
19	8	M	In 8 d. St. mar. 3 re
20	9	Tu	Edmund K. & Mar.
21	10	W	
22	11	Th	Cecilia
23	12	F	St. Clement
24	13	S	☿ sets at 4 22 morn.
25	14	G	25 S. after Trin.
26	15	M	In 15 d. St. M. 4 r
27	16	Tu	☿ sets at 6 38 aft.
28	17	W	Mich. Term ends
29	18	Th	Day b. at 5 52 morn
30	19	F	St. Andrew

All Souls
On morrow of Souls : Ret.

Mich. Term begins
Which doubtless may a semblance
strike ;
But thou, O Lord, art only like.

St. Martin
Cam. T. div. m

Like what ?---Oh here alas the
Preacher
Must be a learner---not a Teacher.
He stop't---while all attentive they
stood listening, what he had to say
He now apply'd to Reason's aid ;
But stubborn Reason only said

Old Martinmas day.

D. of Glouc. born

Aye now, queth he, upon my con-
science,
You're fast---the devil fetch your
Nonsense.---

Observations in NOVEMBER.

M Clock
D aft. Sun.

Sol running on his Yearly race,
To Capricornus hastes apace.
Yet Winter cheerful looks around,
Where Wit and Wine and Love abound.

1	16	13
6	16	7
11	15	38
16	14	47
21	13	35
26	12	5

1	6	a	52	VII	IV	18	Colebrand,
2	7	34	15		45	19	Will Dell,
3	8	22	17		43	20	Devil of
4	9	15	19		41	21	Maston,
5	10	11	21		39	22	Guy Faux.
6	11	10	22		37	23	
7	morn		24		36	24	
8	0	13	26		34	25	Coblers, I
9	1	17	27		33	26	own I was
10	2	24	29		31	27	to blame,
11	3	33	31		29	28	On merry
12	4	43	32		28	29	Crispin not
13	5	56	34		26	30	to think:
14	D sets		36		24	N	But if I
15	5	a	37	37	23	2	chanc'd to
16	6	33	39		21	3	miss his
17	7	34	40		20	4	Name,
18	8	41	42		18	5	You'll sure-
19	9	53	43		17	6	ly not for-
20	11	7	44		16	7	get to drink.
21	morn		46		14	8	And drink
22	0	22	47		13	9	again when
23	1	35	48		12	10	that's for-
24	2	46	50		10	11	got,
25	3	55	51		9	12	In memory
26	5	3	52		8	13	of the Pow-
27	6	9	53		7	14	der Plot.
28	D rises		54		6	F	
29	5	a	23	56	4	16	
30	6	9	57		3	17	

The remains of a good Dinner were immediately brought upon the Table: and Mrs. Griffin herself rejoic'd, in hopes of a Spiritual Feast.

There was (when I was young) a Range of Buildings in my Neighbourhood consisting of eight houses inhabited by persons of eight different professions, in religious Sentiments. viz. An Anabaptist, a Church-man, a Presbyterian, an Independant, a Quaker, a Jew, a Papist and a Free-thinker. — of these, an ingenious Man in those days remark'd,

“Howe’er they disagree in point of thinking,

“They’re all unanimous in case of drinking.

Our Host and his Guests in points of Speculation, were widely different from each other. However

It soon appear’d at this convivial meeting, that they were all agree’d in Point of eating. Mr. Martext, whose part it was to do the duty of Chaplain, performed to admiration.

Upon bringing in a large Sallow of Beef, he expatiates upon a Meat offering, the sight of a fresh Tankard gave opportunity for an harangue upon a drink

DECEMBER hath xxxi Days.

M D Decr. South

East Quarter	6	} Day {	6 hours 50 Min. Aft.	1	21	59
New Moon	13		26 Min. Aft.	6	22	38
First Quarter	20		46 Min. Aft.	11	23	6
Full-Moon	28		16 Min. Morn.	16	24	22

☉ enters ♍ 21 day at 11 h. 15 m. Aft.

21	23	27
26	23	20

1	20	S		And this, you now may plainly see
2	21	G	Advent Sunday	Comes of your d---d Extremore.
3	22	M	Twil. ends 6 5	Had you, a ev'ry wise Man ought,
4	23	Tu	Durat Twil. 2 9	With caution wrote down ev'ry
5	24	W	Day 8h. long	thought;
6	25	Th	Nicholas	Then dath'd out what you found
7	26	F	Day dec. 8 40	smile,
8	27	S	Conception of V.M.	The Matter ne'er had come to this;
9	28	G	2 Sun. in Advent	While they at you, and you at
10	29	M	2 sets at 1 50 morn	them, a
11	30	Tu		Murrain confound your curs'd di-
12	Dec.	W	24 rises at 5 18 m.	lemmas,
13	2	Th	Lucy	And all your d--- Pedantic Rules,
14	3	F	2 sets at 6 17 aft.	Stand staring like a Pack of Fools.
15	4	S	Day break at 6	
16	5	G	3 Sun. in Advent	Here Fanny kindly gave a hint,
17	6	M	Oxf. Term ends	The Parson straight began to quint.
18	7	Tu	Durat. Twil. 2 11	O sapientia. Cam. Term ends
19	8	W	Length of day 7 44	The Audience soon conceived a mo-
20	9	Th		tion,
21	10	F	St. Thomas	Upward or downward he'd a Motion.
22	11	S	Length of N. 16 16	
23	12	G	4 Sun. Advent	Shortest day
24	13	M	P. St. N. at 7 31 af	
25	14	Tu	Christmas day	
26	15	W	St. Stephen	
27	16	Th	St. John	
28	17	F	Innocents	
29	18	S	2 sets at 6 34 after	
30	19	G	Sund. aft. Christm.	
31	20	M	Silvester	

Observations in DECEMBER.										M	Clock
										D	aft. Sun.
1	6	59	VII	18	Now that	offering. The sitting a large qu				18	30 57
2	7	54	59	19	the Year's	to make room to place another by				18	8 13
3	8	52	0	20	got dim and	it's side, was a heave-offering,				11	5 56
4	9	52	VIII	21	Old,	and Mrs. Griffin gently handed to				16	3 30
5	10	53	I	22	Sweet Cha-	him a basket of Bread, which be-				21	Y 1
6	11	58	2	23	city's a	ing expos'd to the Company, was				26	bef.
7	morn	3	3	24	Charmer:	the Shew Bread; this kind act was					
8	1	5	4	25	But the alas	a Waye offering: when unfortun-					
9	2	12	4	26	is grown so	nately taking a Cruft over-bak'd					
10	3	22	5	27	cold,	he pronounced it to be a Burnt					
11	4	35	5	28	Devotion	offering.					
12	5	48	6	29	scarce can	That a Blessing might be					
13	6	sets	6	30	warm her	show'd upon the good Creatures					
14	7	5	7	31	Henry	given for our use; a Prayer was of-					
15	8	11	7		Smith	fer'd, which lasted not above twenty					
16	9	24	7		Tho. Wo-	Minuter, during which time, San-					
17	10	40	8		gan,	cho had bawled out above a dozen					
18	11	57	8		Peg Lemon	Amens, in hopes of snapping it off					
19	12	11	8		Dirty Doll,	in less Compass; but all was in-					
20	morn	8	8		blue Bear	effectual. True it is, the holy					
21	1	25	8			Man had as short a Grace as a					
22	2	35	8			hungry Man would wish to hear;					
23	3	42	8			but that he kept for his own pri-					
24	4	50	7			rate use when he dined alone.					
25	5	50	7			Grace being ended,					
26	6	45	7			Mrs. Griffin propos'd a hymn;					
27	7	27	5			but Sancho got clear of that by a					
28	8	28	5			lucky Proverb.					
29	9	32	6			First Meat and then Music, quoth					
30	10	28	5			Sancho.					
31	11	27	5			Much edifying discourse might					
						be expected after this refreshment,					
						all which we must reserve till					
						another Opportunity.					

LAW TERMS, &c.

A TABLE of Terms and their Returns 1792.

Hilary Term begins Jan. 23, ends Feb. 13.

Returns or Essoign Days.	Jan.	Ex.	Ret.	Apr.	W.D.
On the Octave of St. Hilary,	20	21	22	23	Monday
In 15 Days from the day of St. Hilary,	27	28	29	30	Monday
On the Mor. of the Purif. B. V. M.	3	4	5	6	Monday
On the Octave of the Purif. B. V. M.	9	10	11	12	Monday

Easter Term begins April 25, ends May 21.

On the Day of Easter	April 23	23	24	25	Wednesday
In 1 Week from Easter day	29	30	1	2	Wednesday
In 1 Month from Easter day	6	7	8	9	Wednesday
In 5 Weeks from Easter day	13	14	15	16	Wednesday
On the Morrow after the Ascension	18	19	20	21	Monday

Trinity Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity	June 4	5	6	7	Friday
On the Octave of the Holy Trinity	10	11	12	13	Wednesday
In 15 Days from the Holy Trinity	17	18	19	20	Wednesday
In 3 Weeks from the Holy Trin.	24	25	26	27	Wednesday

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls,	Nov. 3	4	5	6	Tuesday
On the Morrow of St. Martin,	12	13	14	15	Thursday
On the Octave of St. Martin.	18	19	20	21	Wednesday
In 15 Days of St. Martin,	25	26	27	28	Wednesday

N. B. No sittings in Westminster-hall on Ascension Day, Midsummer Day, and the 2d of February.

The Eschequer opens eight days before any Term, except Trinity, before which it opens but four days.

Note. That the first and last days of every Term, are the first and last days of appearance.

When Sultry Winter needs no Coals,
And Lawyers fly to heav'n by shoals;
Maids leave their Swains to run to Prayers,
Then think the last Great Day is near.

POOR ROBIN,

1792.

PART THE SECOND.

Containing as much Astrology as is necessary, for a performance of this kind, and no more than the truth; which gives it by much the preference to all other annual prognostications: with such tables, and observations, as (added to the first part) are highly useful to all astronomers, astrologers, accountants, chronologers, and politicians.

Golden Number 7	Cycle of the Sun 9	Number of Direction 19
The Epact - 6	Roman Indiſt. 10	Dominical Letters A. G.

ASTRONOMICAL CHARACTERS,

PLANETS

- ☉ The Sun.
- ☾ The Moon.
- ☿ Mercury.
- ♀ Venus.
- ♂ Mars.
- ♃ Jupiter.
- ♄ Saturn.
- ♌ Ascending Node.
- ♍ Descending Node.
- ♊ Conjunction.
- ♋ Opposition.

SIGNS of the ZODIAC.

- ♈ Aries.
- ♉ Taurus.
- ♊ Gemini.
- ♋ Cancer.
- ♌ Leo.
- ♍ Virgo.
- ♎ Libra.
- ♏ Scorpio.
- ♐ Sagittarius.
- ♑ Capricorn.
- ♒ Aquarius.
- ♓ Pisces.

THE ANATOMY.



A scheme so contriv'd, that by day and by night,
Who studies the most, will be farthest from right.

Griffin one market day, Grace at his back,
 Together go to buy an Almanack.
 The shopman bows; then says with humble voice,
 Sir, here's a Counter full, pray take your choice.
 Griffin takes up a Gent's or Lady's Di'ry,
 And straight about the weather makes enquiry.
 He pores—sees verses—lines—and A's and B's,
 Then cries—why what the d—— call ye these?
 Poems and pot-hooks.—B— them all together;
 I'm for a book that tells about the weather.
 Sir, here's a *Moore*, a *Partridge*, or a *Wing*.
 Take *Moore* (says Grace) I tell you *Moore's* the thing.
 Of falls of kingdoms, Lord it talks so finely,
 And Oh it curses *Papists* most divinely;
 I know that *Moore* will suit you to a minute;
 Then look you Griffin;—here's a picture in it;
 Besides, he foretels deaths, and tells them true.
 Doubt (quoth Griffin) he says nought of you;
 Howe'er I think it's right;—here's *LONDON*, printed
 For *th' Stationers*,—that's what our parson hinted;
 I'm for no book of nonsense written comically;
 But one that tells *th'eclipses* astronomically.
 POOR ROBIN here puts in among the rest of them,
 And swears he'll tell them too, as well as th' best of them.

Of the Eclipses which will happen this present year 1792.

In the circuit of this revolving year there will be only two Eclipses, both of which will be solar defects, and both invisible to the Inhabitants of Great-Britain. Now, gentle reader, look into all the Almanacks you can get, and see if you can find the affair handled in a more astronomical manner than I have hitherto done.—However, to please all Palates, as I am now cooking for the whole country; which by the bye I think is a very good metaphor, and I beg you won't let it escape you; as you cannot think how it hurts us poor devils of authors, when we think we have hit upon a good thing, and nobody takes any notice of it. I say to suit all tastes, we will try at an introduction in rhyme.

Within the circuit of the year,
 But two Eclipses will appear.
 Appear, said I?—That's wrong I ween,
 Cause neither of them can be seen.

If the *Amateur of Eclipses* cries out *this is—d—low*. I cannot help it; but really, my kind customer, wit is so very scarce, good sense so hard to come at, and victualling so very dear, that we Almanack-makers cannot afford rhyme and reason together; on the truth of which I appeal to the works of all my brother

However, to treat this sublime affair with the greatest exactness, we will in the most orderly manner speak first, of the first, and secondly, of the second.

The first, then will be an invisible Eclipse of the sun March 22, 1792.

♄ at 5h. 50m. M. P. ☉'s. long $0^{\circ} 20' 49\frac{1}{2}$

♄'s. Latitude $3\frac{1}{2}$ North.

☉ will be centrally Eclipsed on the meridian at 5h. $51\frac{1}{2}$ m. in long $87^{\circ} 52\frac{1}{2}$. West, and $4^{\circ}\frac{1}{2}$ North Latitude.

The second will likewise be an invisible Eclipse of the sun, and will happen on the 16th day of Sept. as follows.

Conjunction at 9h. 18min. in the morning.

☉'s. Long. 5s. $24^{\circ} 8'$. ♄'s. Lat. $1'$ South.

At this time the Sun will be centrally eclipsed on the meridian in $40\frac{1}{2}$ deg. East Long. and $1\frac{1}{4}^{\circ}$ North Lat.

Having acquitted myself so well in the astronomical line, in order to make my performance as compleat as the best of them, I next had recourse to astrology; whose *wondrous* presages I resolved to embellish with *divine* poetry; I immediately had recourse to the folios of the sages of old.

Authors who have this subject wrote on,
Long before you was 'got or thought on,
Cardan and Proclus, and the Prince
Of all the wizards ever since,
Hight Ptolemy, and near a score
Of other books I ponder'd o'er;
Some wrote in *Latin*, some in *Greek*,
'Twould take a man at least a week
To give their Names, (if he had time.)
And make them hobble into rhyme.
And found that *astrologia docet*,
Si non videtur, nihil nocet.

Well, if that be the case, said I, (cocking my head,)
Of nothing then certainly, nought can be said.
Think you so? quoth my wife —so she straight 'gan to brawl,
And she talk'd a whole hour about nothing at all.
Until tir'd of their nonsense, and tir'd of her talking,
I pack'd up my books, and I went out a walking.

*A correct TABLE of the MOON'S SOUTHING calculated
one who has any thing to do with*

M.	Jan.		Feb.		March		April.		May.		June.	
D.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	6	A. 18	7	A. 6	6	A. 35	7	A. 45	8	A. 3	9	A. 8
2	7	3	7	53	7	22	8	32	8	51	10	2
3	7	48	8	40	8	10	9	19	9	40	11	6
4	8	33	9	27	8	58	10	7	10	31	Morn.	
5	9	19	10	15	9	45	10	56	11	24	0	0
6	10	5	11	2	10	33	11	46	Morn.		1	2
7	10	52	11	49	11	21	Morn.		0	21	2	1
8	11	39	Morn.		Morn.		0	39	1	20	3	4
9	Morn.		0	36	0	9	1	33	2	20	4	1
10	0	26	1	23	0	58	2	30	3	21	4	55
11	1	13	2	10	1	48	3	28	4	20	5	45
12	1	59	2	58	2	40	4	27	5	17	6	33
13	2	45	3	47	3	34	5	26	6	11	7	20
14	3	31	4	39	4	29	6	23	7	2	8	6
15	4	17	5	32	5	26	7	18	7	51	8	52
16	5	4	6	28	6	24	8	10	8	38	9	38
17	5	54	7	26	7	22	9	1	9	25	10	25
18	6	47	8	25	8	19	9	50	10	11	11	12
19	7	42	9	24	9	14	10	38	10	57	11	59
20	8	40	10	22	10	7	11	25	11	44	0	A. 46
21	9	41	11	17	10	58	0	A. 12	0	A. 31	1	33
22	10	42	0	A. 11	11	47	1	0	1	19	2	19
23	11	42	1	2	0	A. 37	1	47	2	7	3	4
24	0	A. 40	1	51	1	24	2	35	2	54	3	48
25	1	34	2	39	2	12	3	23	3	40	4	33
26	2	26	3	27	3	0	4	10	4	26	5	18
27	3	15	4	14	3	48	4	57	5	11	6	4
28	4	2	5	1	4	35	5	44	5	56	6	52
29	4	48	5	48	5	22	6	31	6	42	7	43
30	5	34			6	10	7	17	7	29	8	38
31	6	20			6	58			8	17		2

for the YEAR of our LORD, 1792, highly necessary for every
 her either by Land or Water.

M.	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
D.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	9	A. 36	11	A. 20	0	M. 0	0	M. 33	1	M. 46	2	M. 0
2	10	36	Morn.		0	54	1	23	2	35	2	47
3	11	39	0	19	1	46	2	13	3	24	3	33
4	Morn.		1	16	2	36	3	2	4	12	4	18
5	0	41	2	10	3	25	3	51	4	59	5	2
6	1	41	3	2	4	14	4	40	5	45	5	46
7	2	38	3	52	5	2	5	28	6	30	6	30
8	3	32	4	40	5	51	6	16	7	15	7	15
9	4	23	5	27	6	39	7	3	8	0	8	1
10	5	12	6	14	7	26	7	49	8	45	8	50
11	5	59	7	1	8	14	8	35	9	32	9	42
12	6	45	7	48	9	0	9	20	10	21	10	37
13	7	31	8	36	9	47	10	6	11	13	11	35
14	8	17	9	24	10	33	10	53	0	A. 7	0	A. 36
15	9	4	10	11	11	19	11	41	1	4	1	37
16	9	51	10	58	0	A. 5	0	A. 31	2	3	2	37
17	10	39	11	44	0	52	1	24	3	3	3	35
18	11	26	0	A. 29	1	41	2	19	4	2	4	29
19	0	A. 12	1	14	2	31	3	15	4	59	5	21
20	0	58	2	0	3	23	4	13	5	53	6	10
21	1	44	2	47	4	17	5	11	6	45	6	58
22	2	29	3	35	5	13	6	9	7	35	7	45
23	3	13	4	25	6	11	7	4	8	24	8	32
24	3	58	5	17	7	9	7	58	9	12	9	19
25	4	44	6	12	8	7	8	50	9	59	10	7
26	5	33	7	10	9	3	9	41	10	47	10	55
27	6	25	8	9	9	58	10	30	11	35	11	43
28	7	20	9	9	10	51	11	19	Morn.		Morn.	
29	8	17	10	8	11	42	Morn.		0	24	0	30
30	9	17	11	5	Morn.		0	8	1	12	1	16
31	10	19	Morn.				0	57			2	1

The use of the foregoing TABLE of the Moon's Southing, to find the time of High-Water, and the hour of the night.

**I. To find the time of High-Water in most parts of
E N G L A N D, &c. &c.**

Take the time of the Moon's Southing for the day proposed, and to that add the hours and minutes which stand against the place required in the following Table of sea-coasts, and the sum will be the time of High-Water at the place required on that day.

A Table of the Sea Coasts.

H. M.

<i>Portsmouth, Queenborough, Southampton,</i>	-	0	00
<i>Rochester, Winchelsea, Flushing,</i>	-	0	45
<i>Draws, Gravesend, Ramkins, Guernsey,</i>	-	1	30
<i>Denbeigh, Bell-Isle, Holy-Isle, Downs-Road,</i>	-	2	15
<i>London, Tinnmouth, Whitby, Hartlepool,</i>	-	3	00
<i>Scarborough, Berwick, Flushing, Staples,</i>	-	3	45
<i>Fiamborough, Humber, Bridlington-Bay,</i>	-	4	30
<i>Plymouth, Ramsy, Newcastle, Severn,</i>	-	5	15
<i>Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,</i>	-	6	00
<i>Boston, Start-Point, Foulness, Bristol-Key,</i>	-	6	45
<i>Bridgewater, M lford-Haven, Lizard, Wintertown</i>	-	7	30
<i>Yarmouth, Isle of Wight, the Needles,</i>	-	8	15
<i>Isle of Man, Orkney, Pool, South-Foreland,</i>	-	9	10
<i>Dover, Harwich, Orfordness, Bullein,</i>	-	10	10
<i>Rye, Sealebay, Margate-Road,</i>	-	11	15

J. To find the hour of the night by the shadow of the moon on a sun-dial.

1. When the shadow falls precisely on the hour 12, then the time of the Moon's southing, found in the preceding table is the exact time of night. But in other cases,

2. If the shadow wants of 12, see how much it wants of it; Which time subtracted from that of the Moon's southing, leaves the time of night. *Note*, You must add 12 hours to the Moon's southing, if need be.

3. If the shadow has past 12, add the time that it has past it to the time of the Moon's southing; the sum will be the time of night required; abating 12 hours from that sum, if need be.

**A TABLE of all the KINGS and QUEENS of England
since the CONQUEST in 1066.**

<i>Names of Kings.</i>	<i>Born A.D.</i>	<i>When they began to reign.</i>	<i>Reigned Y. M.</i>	<i>Since their reigns ended.</i>	<i>Where buried</i>
William I.	1027	1066, Octob. 14	20 11	1085, Septemb.	Caen Norm.
William II.	1057	1087, Sept. 9	12 11	1092, August 2	Winc. hest.
Henry I.	1068	1100, Aug. 2	35 4	1157, Decemb. 1	Reading.
Stephen	1105	1135, Dec. 1	8 11	1158, Octob. 25	Feverisham

Saxon Line restored.

Henry II.	1133	1154, Octob. 25	34 6	1163, July 6	Fountever
Richard I.	1156	1189, July. 6	9 9	1193, April. 6	Fountever
John	1165	1199, April. 6	17 6	1199, October 19	Worcester
Henry III.	1207	1216, Octob. 19	56 1	1272, Novemb. 16	Westmin.
Edward I.	1239	1272, Nov. 16	34 8	1290, July. 7	Westmin.
Edward II.	1284	1307, July. 7	19 7	1327, Jan. 25	Gloucester.
Edw. III.	1312	1327, Jan. 25	50 5	1377, June. 21	Westmin.
Richard II.	1366	1377, June. 21	22 3	1399, Septemb. 29	Westmin.

Lancaster Line

Henry IV.	1367	1399, Sept. 29	13 6	1402, March 20	Canterb.
Henry V.	1389	1413, March 20	9 5	1422, August 3	Westmin.
Henry VI.	1421	1422, August 31	13 6	1461, March 4	Windfor.

York Line.

Edw. IV.	1442	1461, March 4	22 1	1470, April. 9	Windfor.
Edward V.	1471	1483, April. 9	0 2	1483, June. 22	Unkno.
Rich. III.	1443	1483, June. 22	2 2	1485, August 22	Leicester

Families united.

Henry VII.	1456	1485, Aug. 22	23 8	1509, April. 2	Westmin.
Hen. VIII.	1492	1509, April. 22	37 9	1533, Jan. 28	Windfor.
Edw. VI.	1537	1547, Jan. 29	6 5	1553, July. 6	Westmin.
Q. Mary.	1516	1553, July. 6	5 4	1558, Nov. 17	Westmin.
Q. Elizabeth	1533	1558, Nov. 17	44 4	1585, March 24	Westmin.

Crowns united

James I.	1566	1603, March 24	22 0	1603, March 27	Westm.
Charles I.	1600	1625, March 27	23 10	1649, Jan. 30	Windfor.
Charles II.	1630	1649, Jan. 30	36 0	1685, Feb. 13	Westmin.
James II.	1633	1685, Feb. 6	4 0	1702, Feb. 13	S. Germ.
Will. III.	1650	1689, Feb. 13	13 1	1702, March 8	Westmin.
Q. Anne	1665	1702, March 8	12 5	1707, August 1	Westmin.
George I.	1660	1714, August 1	2 10	1727, June 11	Hanover
George II.	1685	1727, June 11	33 4	1760, Octob. 25	Westmin.
Geo. III.	1738	1760, Oct. 25	25	Crowned Sept. 22, 1761.	

Rebels will construe all amiss,
Let kings do what they would for them;
But in our day the case is this,
They've got a king too good for them.

It is by particular desire, that this and the following very necessary and useful Tables are again inserted,

A. T A B L E of Expences or Wages.

By the Day	By the Week			By the Month			By the Year		
	l.	s.	d.	l.	s.	d.	l.	s.	d.
Pence - 1	0	0	7	0	2	4	1	10	5
2	0	1	2	0	4	8	3	0	10
3	0	1	9	0	7	0	4	11	3
4	0	2	4	0	9	4	6	1	8
5	0	2	11	0	11	8	7	12	1
6	0	3	6	0	14	0	9	2	6
7	0	4	1	0	16	4	10	12	11
8	0	4	8	0	18	8	12	3	4
9	0	5	3	1	1	0	13	13	9
10	0	5	10	1	3	4	15	4	2
11	0	6	5	1	5	8	16	14	7
Shillings									
1	0	7	0	1	8	0	18	5	0
2	0	14	0	2	16	0	36	10	0
3	1	1	0	4	4	0	54	15	0
4	1	8	0	5	12	0	73	0	0
5	1	15	0	7	0	0	91	5	0
6	2	2	0	8	8	0	109	10	0
7	2	9	0	9	16	0	127	15	0
8	2	16	0	11	4	0	146	0	0
9	3	3	0	12	12	0	164	5	0
10	3	10	0	14	0	0	182	10	0
11	3	17	0	15	8	0	200	15	0
12	4	4	0	16	16	0	219	0	0
13	4	11	0	18	4	0	237	5	0
14	4	18	0	19	12	0	255	10	0
15	5	5	0	21	0	0	273	15	0
16	5	12	0	22	8	0	292	0	0
17	5	19	0	23	16	0	310	5	0
18	6	6	0	25	4	0	328	10	0
19	6	13	0	26	12	0	346	15	0
20	7	0	0	28	0	0	365	0	0

This Table and the next you'll see,

Persons of high or low degree

Their use will find is double:

The ignorant can't do without them,

And those who somewhat know about them,

They save a deal of trouble.

A TABLE for buying or selling any Commodity by the Great Hundred, which is 112 Pounds.

d. q.	£. s. d. d. q.	£. s. d. d. q.	£. s. d. d. q.	£. s. d. d. q.	£. s. d. d. q.
1	- 2 4 6 1	2 18 4 12 1	5 14 4 18 1	8 10 4	
2	- 4 8 2	3 0 8 2	5 16 8 2	8 12 8	
3	- 7 0 3	3 3 0 3	5 19 0 3	8 15 0	
4	- 9 4 7 0	3 5 4 13 0	6 1 4 19 0	8 17 4	
5	- 11 8 1	3 7 8 1	6 3 8 1	8 19 8	
6	- 14 0 2	3 10 0 2	6 6 0 2	9 2 0	
7	- 16 4 3	3 12 4 3	6 8 4 3	9 4 4	
8	- 18 8 8 0	3 14 8 14 0	6 10 8 20 0	9 6 8	
9	1 1 0 1	3 17 0 1	6 13 0 1	9 9 0	
10	1 3 4 2	3 19 4 2	6 15 4 2	9 11 4	
11	1 5 8 3	4 1 8 3	6 17 8 3	9 13 8	
12	1 8 0 9 0	4 4 0 15 0	7 0 0 21 0	9 16 0	
13	1 10 4 1	4 6 4 1	7 2 4 1	9 18 4	
14	1 12 8 2	4 8 8 2	7 4 8 2	10 0 8	
15	1 15 0 3	4 11 0 3	7 7 0 3	10 3 0	
16	1 17 4 10 0	4 13 4 16 0	7 9 4 22 0	10 5 4	
17	1 19 8 1	4 15 8 1	7 11 8 1	10 7 8	
18	2 2 0 2	4 18 0 2	7 14 0 2	10 10 0	
19	2 4 4 3	5 0 4 3	7 16 4 3	10 12 4	
20	2 6 8 11 0	5 2 8 17 0	7 18 8 23 0	10 14 8	
21	2 9 0 1	5 5 0 1	8 1 0 1	10 17 0	
22	2 11 4 2	5 7 4 2	8 3 4 2	10 19 4	
23	2 13 8 3	5 9 8 3	8 5 8 3	11 1 8	
24	2 16 0 12 0	5 12 0 18 0	8 8 0 24 0	11 4 0	

EXAMPLES.

At 31. 2q. a Pound, what is the price of the Great Hundred? Look in the Left-hand Column for 3d. 2q. and just against it in the very next Column towards the Right, you will find it to be 11. 12s. 8d. Again, Suppose a Pound of North-Sea Hops to be sold for 151. 3q. What is the Price of an Hundred Weight? Look in the fifth Column for 15d. 3q. and over against it in the sixth, you will find 71. 7s. the Price of the Great Hundred.

Or, if you buy any Thing at the Rate of 71. 14s. the Hundred; and would know how much that is a Pound: Look in the sixth Column above, and against it in the fifth Column to the Left, you have 16d. 2q for the Price of one Pound, &c.

Note, For every Farthing that a single Pound costs, reckon 2s. 4d for the Price of the Great Hundred. More Examples are needless.

THE DREAM.

Ld.

OF Orpheus its said, but I can't tell you where ;
 I believe that the story's in Greek ;
 And the days might be Ætios's, when each Bull and Bear
 Like me, or your worship, could speak.

This Orpheus had skill to make all the Brutes dance,
 Whenever his choice was to play ;
 I wish on his harp he'd been pegging in France,
 When the King and the Queen ran away.

They need not have fear'd any plot on my life,
 For Orpheus was but a musician ;
 Remember his going to Hell for his wife,
 And that shews him no politician.

Well, but what of this Orpheus, and what of this Dream,
 That you make such a devilish rout ?
 You rambling old fool, when you've once got a theme,
 Can't you stick close to what you're about.

Well, well, honest friend, then my Dream I'll rehearse,
 Have patience, and give me but time for't ;
 But as you perceive that my story's in verse,
 You must wait till I find out a Rhyme for't.

I dreamt I was walking, and humming a song,
 As old as myself, if not older ;
 When I met an odd fellow, come posting along,
 With his harp hanging over his shoulder.

So, good morrow, said I—and good morning to you ;
 As is common with folks when they're walking ;
 I said he look'd hot—he reply'd, very true ;
 And, with that, why we both fell to talking.

So he ask'd me my name.—'Tis POOR ROBIN, said I :
 Aye, are you poor Sir Robert ? quoth he :
 Now, if right I remember (he said in reply,)
 Why you once made a song about me.

And

And pray now what's your name, and where do you dwell,
If I may make free, Sir, to know where?
I am Orpheus, said he, the Musician of Hell,
And so you will find when you go there.

Now I think I was ne'er so surpriz'd in my life,
When he told me his name:— And I said it
Was hard—else he should have got drunk with my wife,
If I'd had either money or credit.

Well, but how go you on in the regions below?
I want to hear somewhat about it;
Why that, says the bard, you may soon enough know,
I think you're as well off without it.

There is Amphion and I often give them a song,
Which serves as a powerful charm:
Then together we drink, and our liquor is strong,
But only its rather too warm.

When God Pluto begins to storm, rage, swear, and fret,
And all Hell in an uproar does keep;
Then at Proserpine's call we strike up a Duet,
And we play the old devil to sleep.

Think not that we keep the worst Music in Hell,
For the bad from the good we oft skim;
And what we despise does for you very well,
When its set to a Methodist hymn.

Well, but where are you going (said I) with such speed,
Pray what is your errand and plan, sir?
Why that, reply'd he, is a question indeed,
Which I scarcely can tell how to answer.

You have heard how dire discord wide spreading now pulls
Down all order, and breeds strong commotions:
And of *Payne's Rights of Men*, which has fill'd Briti
skulls
With most damnable strange stupid notions.

Now

Now by Pluto I'm sent these commotions to quell;
For to speak without any romance:

While you often have wish'd all the French were in Hell,
He had rather half Hell was in France.

You must know that old Charon has ferry'd a pack
O'er of rascals that make such a riot:
'Tis the wish of all Hell he would ferry them back,
For ev'n Pluto himself can't sleep quiet.

And while they're in Tartarus, tossing and tumbling,
And railing at Hell's constitution;
He does not approve of their growling and grumbling,
And fears they intend revolution.

And if they should rise without any regard,
And drive him away from his throne;
He protests he shall think it most damnable hard
If he can't have a Hell of his own.

And says, what would their worships be at now, I pray;
Why such as I have they partake it;
They've a large Brimstone-pudding cook'd up ev'ry day,
As hot as the Devil can make it.

Lord! your poets above, how they'd jump at a slice;
For I'm told there they use them like Turks;
It would warm their poor guts, and they'd carrol so nice;
They would then have some fire in their works.

And so he has sent me to give them a song,
Out of politicks, not out of pity;
So a thing I've contriv'd, as I hobbled along,
Which I reckon your world calls a ditty.

G—d—a-mercy; your wits are right nimble, said I;
Pray may I have the pleasure to hear it?
Oh yes, (quoth the Bard,) by the way of reply,
I will give you my song, never fear it.

His harp from off his shoulders then he flung;
 But ere he sung,
 Rolling with a rapid pace,
 From treble down to lowest bass,
 His nimble fingers ran;
 When thus in dulcet strain the bard began.

Hence disgust and wild dismay;
 Discord hence fly far away.
 Mortals wisely learn to know,
 What is happiness below:
 Mark, throughout the whole creation,
 All things in a just gradation;
 Thus, the mighty Jove ordain'd,
 Order should be well maintain'd.
 See from greatest to the least,
 From Gods to men; from man to beast;
 Thence down to the insect race,
 Subordination taking place;
 Should subordination cease,
 Farewell Order, farewell Peace.
 'Twas ordain'd in Wisdom's school,
 Some should serve and some should rule;
 And he's the only happy man,
 Who acteth up to Wisdom's plan.

Listen to a tale of old,
 By the sapient Esop told;
 How Man of many members made;
 Requires of each a diff'rent aid;
 But could that human frame be quiet,
 If all the members in a riot,
 Each another part should chuse,
 Each its proper task refuse?
 The hands to work, the feet to tread,
 And all resolve to be the head?
 Reflect the end of such confusion,
 And mark the bodies' dire conclusion.

Then

Then banish discord from your hearts,
 And well contented act the parts
 Just Heav'n's to every one allotted;
 Thus, you at last, with souls unspotted,
 When you shall your journey take
 Hence, and cross the Stygian lake
 In Elysium bless'd may rove
 Where all is peace, and all is love.

Let not idle tales deceive
 Your wand'ring fancies; but believe
 This the only way, to go
 To those happy shades below:
 Where the souls of all the blest,
 In endless joys for ever rest.

He ceas'd.—And is this your fine ditty? I cry'd;
 It is, said he;—why should I flatter;
 By truth I will conquer. Why then, I reply'd,
 I see you know nought of the matter.

Your harpsstrings they'll break, one and all quick as thought,
 If you in this cause do embark, as
 I live, by the L—d, I would not give a great
 For either your harp or your carcase.

No, fir'd by these doctrines, as taught them by Payne;
 They would vex your old soul, 'till you swore
 By the heavens, was you safe but in hell once again,
 You would never come out of it more.

But with you for fame and their plaudits to raise?
 I'll shew you the method to get it:
 So M—y a poem shall write in your praise,
 And St—ce to music shall set it.

With treason well season'd let ev'ry line flow,
 The Mob of each nation shall roar it;
 While the damned on earth, and the damned below,
 Their voices shall join to encore it.

And if you indeed do desire to succeed,
And with spirit to carry the farce on;
Then in the first place, you must put on the face
Of a Non-con old Puritan parson.

Let the English ne'er rest, till they're rid of the Test,
And while you are bawling your nonsense;
Licentiousness teach; but mind while you preach,
That you *liberty* call it of *conscience*.

'Then bid them advance, as they did it in France,
At the root of nobility strike:
To do this you may say, take their titles away,
And then you're all noble alike.

Set the People 'gainst Kings, as d—d useless things,
Tell them all men are equal by nature:
Then bid the brave souls set at variance the Poles,
And let them fight it out at th'Ecuador.

So when earth you've surrounded, and all things con-
founded
By damning of each constitution;
Pull old Jove next on high from his throne in the sky,
And so make a fair revolution.

As to Jove's vacant throne, clap old Pluto thereon,
His laws to their taste are so striking;
They then may give o'er, but never before,
'Cause they'll then have a God to their liking.

Now darkness around, sudden blackened the ground
And runn'd with a terrible crack;
I turn'd me to see what the matter might be,
When lo Pluto stood close at my back.

As I view'd him awhile, by his damnable smile,
He seem'd highly pleas'd with the scheme;
But before that he spoke, with the fright I awoke,
And like *Bunyan* I found 'twas a Dream.

OBSERVATIONS upon the four Quarters of the Year

Spring Quarter.

The spring begins on the 19th day of March at 22 Min. past 9 in the evening, the Sun then touching upon the first scruple of Aries, making day and night as nearly equal as a miser's generosity is to the modesty of Billingsgate. This is the season of love, likewise.

This is Leap Year, and ancient proverbs say,
If lads don't leap this year, the lasses may.

The Summer Quarter.

The bright luminary Sol having travelled through the three celestial signs, *Aries*, *Taurus*, and *Gemini*, and entering upon the first degree of *Cancer*, reaches the most northern part of his annual circuit, when Spring recedes and Summer takes place; this will be on the 20th day of June at 19 min. after 7 in the evening. The extremity of heat is now so great that it is apprehended in Term time, some lawyers will strip off their consciences to put on their gowns.

Now nights are shortest, days are longest;
Love wars with lust, but lust gets strongest.

The Autumnal Quarter.

Upon the Sun's entrance upon the celestial balance *Libra* which this year will be upon the 22d day of Sept. at 4 min. past 9 in the morning, days and nights are matched to a minute, and once more reduced to an equality. This too is the joyous season of celebrating harvest home; when the plenteous table is spread to the reapers, and their cares are drowned in flowing bowls.

And if it does the poet good to think on't;
Good lord! how pleasant would it be to drink on't.

The Winter Quarter.

On the 21st day of Dec. at 35 min. past one in the afternoon, the Sun entering upon the first scruple of Capricorn, introduces the Winter quarter, which not only spends the Christmas with us, but likewise kindly stays with whistling rocking winds to nurse the new-born year, but of this cold comfortless quarter why should I enlarge,

Or set you a shaking, and shudd'ring about it?
Alas! we poor poets can shudder without it.

CONCLUSION.

If Life should remain,
You'll hear from me again;
I think I may say there's no fear of it:
But if that's almost past,
Why then this is my last;
And so HORSFIELD, be sure you take care of it.

F I N I S.

Speculum Anni :

^{O.R.}
SEASON on the SEASONS,

For the Year of our LORD 1792,

BEING

BISSEXTILE, OR LEAP YEAR.

Wherein you will find all Things necessary
for such a Work ; Sun and Moon's Rising and Setting ;
Moon's Southing, Planets Places and Aspects, Eclipses,
Judgments on the Weather, and Four Quarters ;
Remarks about the Sun, Monthly Poetry, and other
Novelties.

By HENRY SEASON,

LICENSED PHYSICIAN,

And Student in the Celestial SCIENCES, near DEVIZES.

With a particular Judgment of the Eclipses, &c.

Omnis donatio bona, & omne integrum bonum

Est superne descendens à patre Luminum. JAC. 1. 17.

God hath granted me to speak according to my Mind, and to judge
worthily of the Things that are given me ; for he is the Leader
unto Wisdom, and the Director of the Wise : How the Times
alter, the Change of the Seasons, the Course of the Year, and the
Situation of the Stars. Wisd. chap. vii. ver. 15, 19.

The sacred Fiat! no sooner nam'd,
But Heav'n with all its Hosts were fram'd:
Phœbus display'd his fiery Car,
And Wisdom marshall'd ev'ry Star;
Six Worlds around the Sun did move,
He gave their Light, and Motion's guide;
By secret, fix'd, attractive Laws,
They all confess th' Almighty Cause.

The AUTHOR'S Fifty-ninth Impression.

L O N D O N :

Printed for the COMPANY of STATIONERS,
and sold by ROBERT HORSFIELD, at their Hall, in Ludgate-street.

[Price TEN-PENCE Itched.]

The common Notes for the Year 1792.

The Golden Number - -	7	Shrove-Sunday -	Feb. 19
The Epact - - - -	6	Ash-Wednesday -	Feb. 22
The Cycle of the Sun - -	9	Easter-Day - -	Apr. 8
Dominical Letter -	A G	Whit-Sunday - -	May 27
Roman Indiction - - -	10	Advent-Sunday -	Dec. 2
Septuagesima Sunday	Feb. 5	Sundays after Trinity - -	25

The 12 Signs.

♈	Aries
♉	Taurus
♊	Gemini
♋	Cancer
♌	Leo
♍	Virgo
♎	Libra
♏	Scorpio
♐	Sagittary
♑	Capricorn
♒	Aquarius
♓	Pisces

The 7 Planets, and the Aspects.

☉	Sun
☾	Moon
♄	Saturn
♃	Jupiter
♂	Mars
♀	Venus
☿	Mercury
♌	Conjunction
*	Sextile
□	Square
△	Trine
♌	Opposition

The four Quarters of the Year.

		d	h	m	
Spring	Quarter begins - - -	March 19	9	22	Aftern.
Summer	Quarter begins - - -	June 20	7	19	Aftern.
Autumn	Quarter begins - - -	Sept. 22	9	4	Morn.
Winter	Quarter begins - - -	Dec. 21	1	35	Morn.

Venus is a Morning Star till August 6, and then an Evening Star for the rest of the Year.

Jupiter is a Morning Star till April 15, then an Evening Star till Nov. 3, and then a Morning Star for the rest of the Year.

A TABLE

A TABLE of the **KINGS and QUEENS** of England;
from the **CONQUEST** to the present Year 1792.

<i>Names of Kings.</i>	<i>Born Ann.</i>	<i>When Began to reign.</i>	<i>Reign. Y. M.</i>	<i>Since their Reign ended.</i>	<i>Buried at</i>
William 1	1029	1066, Octob. 14	20 11	705, Septem. 9	Caen, Nor.
William 2	1067	1067, Sept. 9	12 11	692, August 2	Winchest.
Henry 1	1068	1100, Aug. 2	35 4	657, Decemb. 2	Reading.
Stephen	1105	1135, Dec. 1	12 11	638, Octob. 25	Faversham

The Saxon Line Restored.

Henry 2	1133	1154, Oct. 25	34 6	8603, July 6	Fontevr.
Richard 1	1156	1189, July 6	9 9	593, April 6	Fontevr.
John	1165	1199, April 6	17 6	576, Octob. 19	Worcester
Henry 3	1207	1216, Oct. 29	56 1	520, Nov. 16	Westmin.
Edward 1	1239	1272, Nov. 16	34 8	485, July 7	Westmin.
Edward 2	1284	1307, July 7	19 7	465, Jan. 25	Gloucester
Edward 3	1312	1327, Jan. 25	50 5	45, June 21	Westmin.
Richard 2	1366	1377, June 21	22 3	393, Sept. 29	Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sept. 29	13 6	379, March 20	Canterb.
Henry 5	1389	1413, Mar. 20	9 5	370, August 31	Westmin.
Henry 6	1421	1422, Aug. 31	38 6	331, March 4	Windfor

The Line of York.

Edward 4	1442	1461, Mar. 4	22 1	309, April 9	Windfor
Edward 5	1471	1483, April 9	0 2	309, June 22	Unknown
Richard 3	1442	1483, June 22	2 2	307, August 22	Leicester

The Families United.

Henry 7	1456	1485, Aug. 22	23 8	283, April 22	Westmin.
Henry 8	1492	1509, April 22	37 9	245, Jan. 28	Windfor
Edward 6	1537	1547, Jan. 28	6 5	239, July 6	Westmin.
Qu. Mary	1516	1553, July 6	5 4	234, Nov. 17	Westmin.
Qu. Eliz.	1533	1558, Nov. 17	44 4	189, March 24	Westmin.

The Union of the Two Crowns.

James 1	1566	1603, Mar. 24	22 0	167, March 27	Westmin.
Charles 1	1600	1625, Mar. 27	23 10	143, Jan. 30	Windfor
Charles 2	1630	1649, Jan. 30	36 0	107, Feb. 6	Westmin.
James 2	1633	1685, Feb. 6	4 0	123, Feb. 13	S. Germain
Will. & Mary	1650	1689, Feb. 3	13 1	90, March 8	Westmin.

The Union of the Two Kingdoms.

Qu. Anne	1665	1702, Mar. 8	12 5	78, August 1	Westmin.
George 1	1660	1714, Aug. 1	12 10	65, June 11	Hanover
George 2	1683	1727, June 11	33 4	32, Oct. 25	Westmin.
George 3	1738	1760, Oct. 25		Crowned Sept. 22, 1761.	

A TABLE of TERMS and their RETURNS.

Hilary Term begins January 23, ends February 13.

Returns or Essoign Days.	E	R	A	W	D
In eight Days of St. Hilary, - - - Jan. 20	21	22	23	Mon.	
In 15 Days of St. Hilary - - - - - 27	28	29	30	Mon.	
On the Mor. of the Purificat. of B.V.M. Feb. 3	4	5	6	Mon.	
In eight Days of the Purificat. of B.V.M. - 9	10	11	12	Mon.	

Easter Term begins April 25, ends May 21.

In 15 Days of Easter - - - April 22	23	24	25	Wed.	
From Easter in 3 Weeks, - - - - - 29	30	31	1	Wed.	
From Easter in 1 Month, - - - May 6	7	8	9	Wed.	
From Easter in 5 Weeks, - - - - - 13	14	15	16	Wed.	
On the Morrow of the Ascension-day, . 18	19	20	21	Mon.	

Trinity Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity, June 4	5	6	8	Frid.	
In eight Days of the Holy Trinity, - 10	11	12	13	Wed.	
In 15 Days of the Holy Trinity, - 17	18	19	20	Wed.	
From the Day of the Holy Trin. in 3 Wks. 24	25	26	27	Wed.	

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls, - - - Nov. 3	4	5	6	Tuesd.	
On the Morrow of St. Martin, - - - 12	13	14	15	Thursd.	
In eight Days of St. Martin, - - - 18	19	20	21	Wed.	
In 15 Days of St. Martin, - - - 25	26	27	28	Wed.	

N. B. No Sittings in Westminster Hall on Ascension-Day, Midsummer-Day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term are the Days of Appearance.

BISHOPS and JUDGES.

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclesiastical Jurisdiction in England, 1792.

Archbishops.	Deans' Names.	Names of the Sees.
Dr. John Moore	Dr. William Buller	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
Bishops.		
Dr. Belby Porteus.	Bp. of Lincoln	London
Hon. Shute Barrington	Bp. of Peterborough	Durham
Hon. D. Browd. North	Dr. Newton Ogle	Winchester
Sir Wm. Ashburnham	Mr. Combe Miller	Gloucester
Dr. Charles Moss	Lord Francis Seymour	Bath and Wells
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. John Hinchliffe	Dr. C. Manners Sutton	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rechester
Dr. Richard Hurd	Hon. St Andrew St. John	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Ross	Dr. Charles Harward	Exeter
Dr. John Warren	Dr. Thomas Lloyd	Banger
Hon. Dr. J. Cornwallis	Dr. Baptist Proby	Lichfield and Coventry
Dr. Lewis Bagot	Mr. W. D. Shipley	St. Asaph
Dr. Richard Watson	Dr. Robert Price, <i>Pres.</i>	Llandaff
Dr. Edward Smalwell	Dr. Cyril Jackson	Oxford
Dr. Christopher Wilson	Dr. John Mallam	Bristol
Dr. George Petyman	Sir Richard Kaye, Bart.	Lincoln
Dr. E. Venables Vernon	Dr. Jeffery Ekins	Carlisle
Dr. Wm. Cleaver	Dr. George Cotton	Chester
Dr. Sam. Horsley	Mr. F. Wollaston, <i>Pres.</i>	St. David's
Dr. Richard Beadon	Dr. Josiah Tucker	Gloucester
Dr. George Horne	Dr. Joseph Turner	Norwich
	Bp. of Rochester	Westminster
	Bp. of Litchfield	Windsor
Dr. Claud. Crigan		Sodor and Man

The Names of the Learned Judges in the Law.

I. Right Hon. Lord Thurlow, Lord High Chancellor.

Sir Rich. Pepper Arden, Knt. Master of the Rolls.

Sir Arch. M'Donald, Knt. Attor. Gen. Sir John Scott, Kat. Sol. Gen.

II. In the { Rt. Hon. Lord Kenyon, L. C. J.

Sir Fran. Butler, Bart.

K. Bench. { Sir Wm. Henry Ashurst, Knt.

Sir N. Grose, Knt.

III. In the { Rt. Hon. Al. Lord Loughborough, L. C. J.

John Heath, Esq.

Co. Pleas. { Sir H. Gould, Kt.

Sir J. Wilson, Kt.

IV. In the { Sir James Eyre, Knt. L. C. B.

Sir Rich. Perryn, Knt.

Exchequer. { Sir Beaumont Hotham, Knt.

Sir Alex. Thomson, Knt.

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that fall upon the Waters.

M D	Jan. h m	Feb. h m	Mar. h m	April h m	May h m	June h m	M D
1	6 a 18	7 a 6	6 a 35	7 a 45	8 a 3	9 a 8	1
2	7 3	7 53	7 22	8 32	8 51	10 2	2
3	7 48	8 40	8 10	9 19	9 40	11 0	3
4	8 33	9 27	8 55	10 7	10 31	morn	4
5	9 19	10 15	9 45	10 56	11 24	0 0	5
6	10 5	11 2	10 33	11 46	morn	1 2	6
7	10 52	11 49	11 21	morn	0 21	2 4	7
8	11 39	morn	morn	0 39	1 20	3 4	8
9	morn	1 36	0 9	1 33	2 20	4 1	9
10	0 26	1 23	0 58	2 30	3 21	4 55	10
11	1 13	2 10	1 48	3 18	4 20	5 45	11
12	1 59	2 58	2 40	4 27	5 17	6 33	12
13	2 45	3 47	3 34	5 26	6 11	7 20	13
14	3 31	4 39	4 2	6 23	7 2	8 6	14
15	4 17	5 32	5 26	7 18	7 51	8 52	15
16	5 4	6 28	6 24	8 10	8 38	9 38	16
17	5 54	7 26	7 22	9 1	9 25	10 25	17
18	6 47	8 25	8 19	9 50	10 11	11 12	18
19	7 42	9 24	9 14	10 38	10 57	11 59	19
20	8 40	10 22	10 7	11 25	11 44	0 a 46	20
21	9 41	11 17	10 58	0 a 12	0 a 31	1 33	21
22	10 42	0 a 11	11 47	1 0	1 19	2 19	22
23	11 42	1 2	0 a 37	1 47	2 7	3 4	23
24	0 a 40	1 51	1 24	2 35	2 54	3 48	24
25	1 34	2 39	2 12	3 23	3 40	4 33	25
26	2 26	3 27	3 0	4 10	4 26	5 18	26
27	3 15	4 14	3 48	4 57	5 11	6 4	27
28	4 2	5 1	4 35	5 44	5 56	6 52	28
29	4 48	5 48	5 22	6 31	6 42	7 43	29
30	5 34		6 10	7 17	7 29	8 38	30
31	6 20		6 58		8 17		31

all the Months of the Year, very necessary for all
 especially and more worthy of Notice to Sea-

M	July	August	Sept.	Oct.	Nov.	Dec.	M
D	h m	h m	h m	h m	h m	h m	D
1	9 a 36	11 a 20	9 m 0	0 m 33	1 m 46	2 m 0	1
2	10 36	morn	0 54	1 23	2 35	2 47	2
3	11 39	0 19	1 46	2 13	3 24	3 33	3
4	morn	1 16	2 36	3 2	4 12	4 18	4
5	0 41	2 10	3 25	3 51	4 59	5 2	5
6	1 41	3 2	4 14	4 40	5 45	5 46	6
7	2 38	3 52	5 2	5 28	6 30	6 30	7
8	3 34	4 40	5 51	6 16	7 15	7 15	8
9	4 23	5 27	6 39	7 3	8 0	8 1	9
10	5 12	6 14	7 26	7 49	8 45	8 50	10
11	5 59	7 1	8 14	8 35	9 32	9 42	11
12	6 45	7 48	9 0	9 26	10 21	10 37	12
13	7 31	8 36	9 47	10 6	11 13	11 35	13
14	8 17	9 24	10 33	10 53	0 a 7	0 a 36	14
15	9 4	10 11	11 19	11 41	1 4	1 37	15
16	9 51	10 58	0 a 5	0 a 31	2 3	2 37	16
17	10 39	11 44	0 52	1 24	3 3	3 35	17
18	11 26	0 a 29	1 41	2 19	4 2	4 49	18
19	0 a 12	1 14	2 31	3 15	4 59	5 21	19
20	0 58	2 0	3 23	4 13	5 53	6 10	20
21	1 44	2 47	4 17	5 11	6 45	6 58	21
22	2 29	3 35	5 13	6 9	7 35	7 45	22
23	3 13	4 25	6 11	7 4	8 24	8 32	23
24	3 58	5 17	7 9	7 58	9 12	9 19	24
25	4 44	6 12	8 7	8 50	9 59	10 7	25
26	5 33	7 10	9 3	9 41	10 47	10 55	26
27	6 25	8 9	9 58	10 30	11 35	11 43	27
28	7 20	9 9	10 51	11 19	morn	morn	28
29	8 17	10 8	11 42	morn	0 24	0 30	29
30	9 17	11 5	morn	0 8	1 12	1 16	30
31	10 19	morn		0 57	2	1 31	31

JANUARY hath xxxi Days.

40	1	2	29
D	1	2	29
1	12	29	
6	13	29	
11	13	m	
16	13	o	
21	13	1	
26	14	1	

Full Moon the 9th day, at 9 in the morning.

Last Quarter the 17th day, at 2 in the morning.

New Moon the 23d day, at 5 in the afternoon.

First Quarter the 30th day, at 11 at night.

W	Remarkable Days, &c.	☉	☽	lon- gitude	☽	rises and sets	♂	♀	☿	Mut. Aspects and Weather.
A	1 S. aft. Chr.	11	14	Y 33	morn	29	24	0		Circumcell.
M		12	26	53	1	4	29	25	1	Dark and
T		13	8	8 56	2	7	29	26	2	☐ ☉ ☽
W		14	20	54	3	9	☿	27	3	☉ ☽
F	Old Christ d.	15	2	II 43	4	7	0	28	4	☉ ☽
F	Epiph. 12 D.	16	14	34	5	4	0	1	4	☉ ☽
S		17	26	26	5	55	1	0	5	* ☽ ☽
A	1 S. aft. Epiph.	18	8	22 22	6	42	1	1	5	Lucian.
M	Plow Mond.	19	20	23	☽ rises	1	3	☿	6	Cold rains
T		20	2	Ω 31	5 a 46	2	4	5	or fleet.	
W		21	14	45	6	49	2	5	5	with
T	Old N. Y. D.	22	27	8	7	52	2	6	4	winds.
F	Ca. T. b. Hil.	23	9	m 40	8	59	2	7	4	
S	Ox. T. begins	24	22	24	10	6	3	8	3	
A	2 S. aft. Epiph.	25	5	☿ 22	11	16	3	9	2	
M		26	18	38	morn.	3	10	1	☐ 11 ☽	
F	Old Twelf. d.	27	2	m 13	0	29	3	11	☽ ☉ ☽	
W	Qu. C. b. d. k.	28	16	10	1	42	3	12	28	☉ ☽ ☽
F		29	0	1 30	2	54	4	13	27	☐ ☉ ☽
F	Fabian.	☿	15	10	4	5	4	15	25	☐ ☉ ☽
S	Agnes	1	0	☽ 5	5	10	4	16	24	
A	3 S. aft. Epiph.	2	15	8	☽ sets	4	17	23	Vincent.	
W	Hil. Term b.	3	0	☿ 9	4 a 32	4	18	22	Cold frosts,	
F		4	14	58	5	47	4	19	21	with snow
W	Con. St. Paul.	5	29	27	7	3	5	20	21	or fleet.
F		6	13	☿ 30	8	18	5	21	20	
R	P. Aug. Fr. b.	7	27	5	9	29	5	23	20	
S		8	10	☽ 12	10	38	5	24	19	Still, cold,
A	4 S. aft. Epiph.	9	22	5	11	44	5	25	19	and
M	K. Ch. l. ms.	10	5	8 17	morn.	5	26	☽	showery.	
F		11	17	24	0	50	5	27	19	

Now hoary Winter's wide domain
Benumbs the meads, the fields, the plain,
While dimly looks the sky;
The streams in icy fetters bound,
And the dull landscape all around
No more delights the eye.

M O r i s e ; O f e l s
D h m h m

O B S E R V A T I O N S .

A	8	5	3	55	" How <i>Life</i> acknowledges its glorious cause,
2	8	4	3	56	" And matter owns its great disposer's laws ;
3	8	4	3	56	" How in a thousand diff'rent models wrought,
4	8	3	3	57	" Now fix'd to quiet, now ally'd to thought ;
5	8	2	3	58	" How flow the forms and properties of things,
6	8	1	3	59	" Whence rises harmony, and order springs,
7	8	0	4	0	" Sing heav'nly muse.
A	8	0	4	0	" Thou present wert, when forth th' <i>Almighty</i> rose,
9	7	59	4	1	" While <i>chaos</i> trembled at the voice of God !
10	7	58	4	2	" Thou saw'st, when o'er th' immense his line hedrew,
11	7	57	4	3	" When <i>nothing</i> from his <i>will</i> existence knew !
12	7	56	4	4	" His <i>word</i> , that wak'd to life the vast profound,
13	7	54	4	6	" While conscious light was kindled at the sound !
14	7	53	4	7	" Creation fair ! surpriz'd th' angelic eyes,
A	7	52	4	8	" And sov'reign <i>wisdom</i> saw that all was <i>wise</i> ."
16	7	51	4	9	Having in our last ephemeris spoken of
17	7	50	4	10	creation, and given the great <i>Sir Isaac</i> 's
18	7	48	4	12	explanations of the true principles of Na-
19	7	47	4	13	ture, in the formation of those primitive
20	7	46	4	14	particles of matter, commonly called atoms,
21	7	44	4	16	by the combination of which, the whole
A	7	42	4	17	system, with all the amazing variety of
23	7	41	4	19	bodies, proceeds; we will next examine
24	7	40	4	20	what are commonly called the essential
25	7	38	4	22	properties belonging to matter, according
26	7	37	4	23	to the observations of the greatest philoso-
27	7	35	4	25	phers of the present age. The first of
28	7	34	4	26	which is
A	7	32	4	28	E X T E N S I O N .
30	7	31	4	29	Extension of matter is the quantity of
31	7	29	4	31	bulk, or size into which the first particles
					of matter are distributed or extended in any
					body ; or, in other words, it is the distance
					between the extreme particles of a body,
					taken from any part of the surface to the
					opposite part thereof.

10 FEBRUARY hath xxix Days.

M	h	u
D	h	m
1	14	1
6	15	1
11	15	1
16	16	2
21	16	1
26	17	1

Full Moon the 8th day, at 3 in the morning.

Last Quarter the 15th day, at noon.

New Moon the 22d day, at 5 in the morning.

First Quarter the 29th day, at 7 at night.

VI D	W D	Remarkable Days, &c	☉ ≡	D lon- gitude	D rises and sets	♂ △	♀ ▽	Mut. Aspect and Weather
1	W		12	29 8 21	1 m 51	5	28 19	Windy,
2	T	Pa. Candl. d.	13	11 11 13	2 46	5	29 20	but mostly
3	F	Blase	14	23 4	3 41	5	20	* 4 ♀
4	S		15	4 58	4 30	5	21	fair.
5	A	Septuag. Aga.	16	16 58	5 14	5	3 21	
6	M		18	29 6	5 44	R	4 22	
7	T		19	11 24	6 27	5	5 23	□ ♂ ♀
8	W		20	23 5	D rises	5	6 24	
9	T		21	6 32	6 a 43	5	8 25	Cold winds,
10	F		22	19 23	7 52	5	9 25	with snow.
11	S		23	2 25	9 1	5	10 26	
12	A	Sexagel. S.	24	15 39	10 13	5	11 27	or rain.
13	M	Term ends	25	29 6	11 26	5	12 29	Old Canl.
14	T	Valentine	26	12 46	morn	5	13	
15	W		27	26 41	0 39	5	15 1	□ ♀, □ 4 ♀
16	T		28	10 49	1 48	5	16 2	
17	F		29	25 10	2 54	4	17 3	Keen frosts,
18	S		30	9 40	3 54	4	18 4	□ ♂ ♀
19	A	Shrove S.	1	24 15	4 47	4	19 6	but mostly
20	M	Cam. T. di. m.	2	8 49	5 30	4	20 7	
21	T	Shrove Tues.	3	23 15	6 7	4	22 8	fair.
22	W	Ash Wednes.	4	7 2	D sets	4	23 10	
23	T		5	21 19	7 a 5	3	24 11	
24	F	St. Matthias.	6	4 42	8 17	3	25 12	Pr. Ad. Fr. b.
25	S		7	17 57	9 26	3	26 14	Still fair
26	A	S. in Lent.	8	0 42	10 33	3	28 15	and frosty.
27	M		9	13 8	11 38	2	29 17	* 4 ♀
28	T		10	25 19	morn	2	18	
29	W	Ember Wee'k	11	7 19	0 36	2	1 20	□ 4 ♀, Δ ♂ ♀

Shiv'ring with cold, an aged Sire
Crept to his cot, renew'd his fire;
And to his little flock;
In stile contentious, plain, yet true,
Of all he'd read, and all he knew;
Pour'd forth his little stock.

Miles
Dy
rises
mth
sets
m

OBSERVATIONS.

17	27	4	33
27	25	4	35
37	24	4	36
47	22	4	38
A 7	20	4	40
67	19	4	41
77	17	4	43
87	15	4	45
97	13	4	47
107	11	4	49
117	9	4	51
A 7	8	4	52
137	6	4	54
147	4	4	56
157	2	4	58
167	0	5	0
176	58	5	2
186	56	5	4
A 6	54	5	6
206	52	5	8
216	51	5	9
226	49	5	11
236	47	5	13
246	45	5	15
256	43	5	17
A 6	41	5	19
276	39	5	21
286	37	5	23
296	35	5	25

We further observe, that by this extension, the shape, size, dimension, or magnitude of every body is known. Magnitude in philosophy denotes that quantity of space, which any particular body fills up, and has three dimensions, viz. length, breadth, and thickness. On this article we shall only further note, that it is unphilosophical to call any thing absolutely great or small; all things being so only by comparison. Thus a salmon is very small when compared with some of the enormous finny inhabitants of the Northern Ocean; but inconceivably large when contrasted with the animalculæ which the microscope discovers swimming in vinegar.

The next general property which matter possesses, is

DIVISIBILITY.

And herein we shall make some remarks upon the surprising ductility of several bodies. I here begin with asserting, that matter is divisible *ad infinitum*; or, in other words may be divided without end; and although this doctrine may appear fallacious to some and absurd to others, who have not entered into these kinds of speculations; it is, nevertheless, a fact, and very capable of a mathematical demonstration.

Geometricians prove it in this manner after first asserting (incredible as it may seem) that there is no particle of matter however small, but is capable of being divided into parts still less and less, through all the ages of eternity.

Full Moon the 8th day, at 7 in the afternoon.
 Last Quarter the 15th day, at 7 in the afternoon.
 New Moon the 22d day, at 6 in the afternoon.
 First Quarter the 30th day, at 4 in the afternoon.

1 17 1
 6 18 1
 11 18 1
 16 19 0
 21 19 1
 26 20 20

M	W	Remarkable	☉	D	lon.	☽	rites	☿	♀	♂	Mut. Aspects
D	D	Days, &c.	☾		gitude		ind sets	☿	♀	♂	and Weather
1	T	David	12	19	11 12	1 m	33	1	2	21	Cold dark
2	F	Chad	13	12	5	2	24	1	3	23	air at the beginning.
3	S		14	13	0	3	10	1	5	24	
4	G	3 S. in Lent.	15	25	2	3	52	1	6	26	
5	M		16	7	16	4	29	0	7	27	
6	T		17	19	42	5	0	7	8	29	
7	W	Perpetua	18	2	44	5	30	29	9	X	☿ ☿ ☿
8	T		19	15	21	D	rites	29	11	2	Now some
9	F		20	28	33	6 a	53	29	12	4	rain or
10	S		21	12	c	8	6	28	13	5	
11	G	2 S. in Lent.	22	25	39	9	19	28	14	7	flect.
12	M	Gregory	23	9	30	10	32	28	15	9	
13	T		24	23	29	11	44	27	17	11	
14	W		25	7	35	morn		27	18	12	* ☿ ☿
15	T		26	21	45	0	53	26	19	14	
16	F		27	5	58	1	54	26	20	16	☿ ☉ ☿
17	S	St. Patrick	28	20	11	2	44	26	21	18	Blustering
18	G	4 S. in Lent.	29	4	21	3	34	25	23	20	Ed. K. W. S.
19	M		0	18	25	4	12	25	24	21	winds,
20	T		1	2	X 21	4	45	25	25	23	☿ ☿ ☿
21	W	Benedict	2	16	5	5	15	24	26	25	
22	T		3	29	35	D	sets	24	27	27	with hail
23	F		4	12	50	7 a	14	23	29	29	or rain.
24	S		5	25	47	8	22	23	X	V	☿ ☿ ☿
25	G	5 S. in Lent.	6	8	27	9	28	23	1	3	Mad Day.
26	M		7	20	52	10	31	22	2	5	More mild
27	T		8	3	11 3	11	30	22	4	7	☉ ☉ ☿
28	W		9	15	4	morn		22	5	9	for the
29	T		10	26	59	0	23	21	6	11	seed time.
30	F	Cam. T. ends.	10	8	51	1	11	21	7	13	
31	S	Oxf. T. ends.	11	20	47	1	54	21	8	15	☿ ☿ ☿

My children, (says the hoary sage,)
 Let me instruct your tender age;
 How seasons glide away:
 How they, as silently they pass,
 Resemble life: for man, alas!
 Is tenant of a day.

M^orites O sets
 D^h m^h m^h m^h

OBSERVATIONS.

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To demonstrate this, let EF in the above figure be a right line, that this line may be divided into a number of parts exceeding any finite number, may be thus proved.

Through E and F, the two extremes of the line, draw the two parallels, AB, and CD. And supposing these two lines to be infinitely extended; there then may be taken an infinite number of points, a, b, c, d, &c. and if to each point straight lines be drawn from the point A, through the line EF, these lines Aa, Ab, Ac, Ad, &c. will each cut off a portion of the line EF; but as the points a, b, c, d, &c. are supposed to be infinite, the lines Aa, Ab, Ac, Ad, &c. will be the same, and consequently the parts, or small portions, which they cut off in the line EF will be infinite also.

Hence it is evident, that the line EF, however small, may be divided to infinity. We hence likewise may draw this inference, that the least particle of matter is capable of an infinite division, as well as the *Pike of Teneriffe*, or any other of the largest masses. It being plain to the meanest capacity, that if a grain of sand is capable of infinite division, the greatest mountain can be no more. Again; the least particle of matter laid upon a flat surface, common sense immediately

14 APRIL hath xxx Days.

M 14 22

D 14 22

Full Moon the 7th day, at 7 in the morning.

Last Quarter the 14th day, at 1 in the morning.

New Moon the 21st day, at 8 in the morning.

First Quarter the 29th day, at 10 in the morning.

1 21 28

6 21 28

11 22 27

16 23 27

21 23 26

26 24 25

M	W	Remarkable	☉	D lon-	D rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	Y.	gitude	and sets	☾	☿	☿	and Weather
1	G	6 or Palm Sun.	12	29 49	2m 32	20	10	17	Flying clds.
2	M		13	15 3	3 6	20	11	19	♂ ♀
3	T	Rd. Bp. Chi.	14	27 34	3 37	20	12	22	with showers
4	W	St. Ambrose	15	10 22	4 5	19	13	24	of rain.
5	T	Maund. Th.	16	23 31	4 31	19	14	26	Old Lady d.
6	F	Good Friday	17	7 1	4 58	19	16	28	8 4 ♀
7	S		18	20 50	D rises	19	17	8	
8	G	Easter Day	19	4m 57	8 a 24	18	18	2	8 ♂ ♀
9	M	Easter Mond.	20	19 17	9 34	18	19	4	Cold, thick,
10	T	Easter Tueid.	21	3 44	10 51	18	20	5	♂ ☉ ♀
11	W		22	18 12	11 56	18	22	7	
12	T		23	2 38	morn	17	23	9	and cloudy
13	F		24	16 56	0 53	17	24	11	air.
14	S		25	1 4	1 43	17	25	13	
15	G	Low Sunday.	26	15 0	2 23	17	26	14	8 ☉ ♀
16	M		27	28 43	2 56	17	28	16	Δ ♂ ♀
17	T		28	12 14	3 26	17	29	17	
18	W	Ox. & Ca. T. b.	29	25 31	3 53	17	☿	19	Good spring
19	T	Alphege	8	8 37	4 19	17	1	20	weather
20	F		1	21 29	4 47	16	3	21	
21	S		2	4 10	D sets	16	4	22	for the
22	G	2 S. aft. Raster	3	16 38	8 a 25	16	5	23	season.
23	M	St. George	4	28 56	9 25	16	6	24	
24	T		5	11 3	10 22	16	7	25	
25	W	St. Mark. T. b.	6	23 2	11 13	16	9	26	Pro. Mary b.
26	T		7	4 56	11 58	16	10	27	Flying
27	F		8	16 48	morn	16	11	27	clouds,
28	S		9	28 42	0 37	16	12	28	with some
29	G	3 S. aft. Easter	10	10 42	1 12	16	13	28	showers.
30	M		11	22 54	1 43	16	15	29	

The soul reviving verdant spring,
 When trees do bud, and birds do sing,
 And gaudy all appears,
 While Flora decks the painted scene,
 Resembles well (if right I ween)
 Your young and tender years.

M	☉ rises		☉ sets		OBSERVATIONS.
	D	h m	D	h m	
G	5	32 6	28		divides it into two parts, viz. that which
2	5	30 6	30		touches the surface, and that which does not.
3	5	28 6	32		Again, since the smallest particle of matter
4	5	26 6	34		is thus divisible, it is evident that there is no
5	5	24 6	36		such thing as an infinitely small particle; and
6	5	22 6	38		let it be a lesson of humiliation to the pride
7	5	20 6	40		of man, that original particles, into which
G	5	18 6	42		matter may be reduced, are beyond all hu-
9	5	16 6	44		man capacity to comprehend.
10	5	14 6	46		We will in the next place consider, what
11	5	12 6	48		surprising effects may be produced from a
12	5	10 6	50		small piece of matter, by the effects of <i>divi-</i>
13	5	8 6	52		<i>sibility</i> and <i>ductility</i> , or that disposition by
14	5	6 6	54		which it is easily drawn into length and
G	5	5 6	55		breadth: and herein I hope the following
16	5	3 6	57		curious and remarkable instances, from the
17	5	1 6	59		best authorities, will not be unentertaining
18	4	59 7	1		to the juvenile part of my readers, for whom
19	4	57 7	3		this work is chiefly intended.
20	4	55 7	5		The honourable Mr. Boyle says, that a
21	4	53 7	7		piece of silk, weighing only two grains and a
G	4	51 7	9		half, was drawn out into a thread 300 yards
23	4	50 7	10		long.
24	4	48 7	12		One grain of gold may be beat out into a
25	4	46 7	14		leaf of 50 square inches, the side of which
26	4	44 7	16		will be upwards of seven inches in length.
27	4	42 7	18		Now as an inch in length may be divided
28	4	40 7	20		into 200 visible parts, we have
G	4	39 7	21		$200 \times 200 \times 50 = 2000000$
30	4	37 7	23		visible parts in one single grain of gold
					And one single pound may be beat into a
					quantity of leaves sufficient to gild a surface
					of 2000 square feet,

Full Moon the 6th day, at 5 in the afternoon.

Last Quarter the 13th day, at 8 in the morning.

New Moon the 20th day, at 10 at night.

First Quarter the 29th day, at 2 in the morning.

1	24	25
6	25	24
11	26	24
16	26	23
21	27	23
26	27	22

M	D	Remarkable Days, &c.	☉	☽ longitude	☽ rises and sets.	♂	♀	☿	Mut. Aspects and Weather
1	T	S. Phil. & Ja.	12	5 ^m 23	2m 12	16	16	29	Cold air,
2	W		13	18 11	2 38	16	17	29	8 h 24
3	T	Inv. of Cross	14	1 ^h 24	3 5	17	18	29	perhaps
4	F		15	15 2	3 32	17	20		Rain.
5	S		16	27 7	4 0	17	21	29	
6	G	4 S. aft. Easter	17	13 ^m 34	☽ rises	17	22	29	J. Ev. a P. L.
7	M		18	28 18	8 a 38	17	23	29	8 24 ♀
8	T		19	13 12	9 48	17	24	28	Variable,
9	W		19	28 7	10 51	17	26	28	6 h ♀
10	T		20	12 ^h 54	11 43	17	27	28	
11	F		21	27 27	morn	18	28	27	with rain
12	S	OL May-day	22	11 ^m 42	0 27	18	29	27	at times.
13	G	5 or Rogat. S.	23	25 36	1 4	18	8	26	
14	M		24	9 ^h 11	1 34	18	2	26	
15	T		25	22 26	2 1	18	3	25	6 0 ♀
16	W		26	5 ^h 26	2 28	19	4	24	More fair,
17	T	Asc. Holy Th.	27	18 12	2 55	19	5	24	
18	F		28	08 45	3 20	19	7	23	and fine
19	S	Q. Charl. bo.	29	13 9	3 48	19	8	23	Dunstan.
20	G	S. aft. Ascen.	11	25 24	☽ sets	19	9	22	pleasant
21	M	Easter T. ends.	1	7 13	8 a 16	20	10	22	weather.
22	T	Pra. Eliz. bo.	2	19 32	9 9	20	11	21	
23	W		3	1 ^h 28	9 57	20	13	21	
24	T	Oxf. T. ends.	4	13 20	10 38	21	14	21	Δ ♂ ♀
25	F		5	25 11	11 14	21	15	20	Still con-
26	S	Augustin Abp.	6	7 ^h 4	11 47	21	16	20	tinues fine
27	G	Whit-Sund.	7	19 3	morn	21	18	20	Ven. Bede
28	M	Whit-Mond.	8	1 ^h 13	0 14	22	19	20	and fair.
29	T	Whit-Tues.	10	13 38	0 40	22	20	20	K. Ch. II. re.
30	W	Ember Week	11	26 2	1 5	22	21	21	
31	T			9 ^h 32	1 22	23	22	21	Δ ♂ ♀

Yet oft the blossoms nip'd decay,
Untimely drop, and fade away.

By some pernicious frost :
So summon'd by relentless death,
Childhood resigns its fleeting breath,
And all our hopes are lost.

Miles. Sets.
Dh m h m

OBSERVATIONS.

14	35	7	25	An ounce of silver may be gilt with eight
24	34	7	26	grains of gold, and this may afterwards be
34	32	7	28	drawn out into a wire of 1300 feet in length.
44	30	7	30	And Dr. Halley has proved, that 124,500 of
54	28	7	32	those very fine skins of gold used in gilding
G4	27	7	33	silver wire, do not in thickness exceed one
74	25	7	35	inch.
84	23	7	37	The extraordinary subtilty of matter will
94	22	7	38	further appear in the following instances :
104	20	7	40	Mr. Boyle has observed, that one grain of
114	19	7	41	copper will tinge 28534 grains of water, and
124	17	7	43	therefore in one drop of water, whose di-
G4	16	7	44	ameter is only a hundredth part of an inch,
144	14	7	46	there will be contained 211400 visible parts
154	13	7	47	of copper, allowing 100 to an inch.
164	11	7	49	The accurate and learned Dr. Keil has
174	10	7	50	computed the magnitude of a particle of <i>assa</i>
184	8	7	52	<i>fatida</i> to be no more than
194	7	7	53	parts of a cubic inch, and that one of those
G4	6	7	54	globules of blood which circulates in the
214	4	7	56	veins of some minute animals cannot exceed
224	3	7	57	part of a cubic inch.
234	2	7	58	Lastly, there have been discovered by mi-
244	0	8	0	croscopic observations, that there really are
253	59	8	1	animalcula, or living insects, so exceedingly
263	58	8	2	small, that a single drop of water would ac-
G3	57	8	3	tually cover 100,000 of them. If the whole
283	56	8	4	body then be so stupendously small, how
293	55	8	5	small must the different limbs be of which
303	54	8	6	it is composed, and yet how much smaller
313	53	8	7	those particles of matter which unite to form
323	52	8	8	these limbs.

18 JUNE hath xxx Days.

M	D	H
1	28	22
6	29	22
11	29	22
16	29	22
21	8	22
26	0	22

Full Moon the 5th day, at 1 in the morning.
 Last Quarter the 11th day, at 4 in the afternoon.
 New Moon the 19th day, at 1 in the afternoon.
 Last Quarter the 27th day, at 2 in the afternoon.

M	W	Remarkable Days, &c.	☉	☽	Longitude	☽	☽	☽	Mut. Aspects and Weather
D	D		H	H		☽	☽	☽	
1	P	Nicomede	12	23	10	1	m	57	23 24 21 Mild and
2	S		13	7	m	17	2	26	23 25 21 calm, but
3	G	Trinity Sund	13	21	52	3	2	24	26 22 now and then
4	M	K. Geo. III. b.	14	6	49	3	43	24	27 22 Boniface.
5	T	Er. Et. Au. b.	15	22	0	☽	rises	24	28 23 showery.
6	W	Oxf. T. beg.	16	7	15	9	a	32	25 11 24
7	T	Corpus Chri.	17	22	22	10	20	25	1 24
8	F	Trinity T. b.	18	7	12	11	1	26	2 25
9	S		19	21	40	11	36	26	3 26 Δ δ ☽
10	G	1 S. aft. Trin.	20	5	X	41	morn	26	5 27
11	M	St. Barnabas.	21	19	17	0	4	27	6 28 Warm and
12	T		22	2	28	0	29	27	7 29 close wea-
13	W		23	15	20	0	55	28	8 11 ther, perhaps
14	F		24	27	54	1	21	28	9 1 thunder.
15	F		25	10	8	16	1	48	28 11 3
16	S		26	22	28	2	18	29	12 4 St. Alban
17	G	2 S. aft. Trin.	27	4	11	32	2	50	29 13 5
18	M		28	16	31	3	25	29	14 7
19	F		29	28	26	☽	fets	0	16 8 Some drops
20	W	Tr. Ed. K. W. S.	30	10	18	8	a	33	1 17 9 of rain,
21	T	Longest day	1	22	10	9	12	1	18 11
22	F		2	4	2	9	45	2	19 13 ☐ ☉ δ
23	S		3	15	57	10	14	2	20 14 then warm.
24	G	3 S. a. T. N. J. B.	4	27	58	10	40	2	22 16 Midsum. D.
25	M		4	10	m	8	11	7	3 23 18 Δ 4 ☽
26	T		5	22	32	11	31	3	24 20 Brisk air,
27	W	Trin. T. e.	6	5	15	11	57	4	25 21 Δ 4 ☽
28	T		7	18	20	morn		4	27 23 but fine
29	F		8	1	m	52	0	21	5 28 25 and warm.
30	S	St. Peter.	9	15	53	0	52	5	29 27

Spring soon retires, and Summer burn
 So youth and childhood in their turns
 To manhood next give way :
 Here, like the season fierce and hot,
 Like fruits we ripe, but ripe to rot,
 For all must soon decay.

M	Orites		O sets		OBSERVATIONS.
	D	h m	h m	h m	
	1	3	52	8	8
	2	3	51	8	9
G	3	50	8	10	10
	4	3	49	8	11
	5	3	49	8	11
	6	3	48	8	12
	7	3	47	8	13
	8	3	47	8	13
	9	3	46	8	14
G	3	46	8	14	14
	11	3	45	8	15
	12	3	45	8	15
	13	3	44	8	16
	14	3	44	8	16
	15	3	44	8	16
	16	3	43	8	17
G	3	43	8	17	17
	18	3	43	8	17
	19	3	43	8	17
	20	3	43	8	17
	21	3	43	8	17
	22	3	43	8	17
	23	3	43	8	17
G	3	43	8	17	17
	25	3	43	8	17
	26	3	44	8	16
	27	3	44	8	16
	28	3	44	8	16
	29	3	45	8	15
	30	3	45	8	15

On a serious contemplation upon subjects of this kind, whose very minuteness enlarges our wonder and astonishment, what thinking being will grudge to step perhaps a little out of the way of our present discourse, while he admires, with rapture, a new creation, and sees millions of living creatures, by the assistance of optical apparatus, of which ages past had not the least conception. Well might the ingenious Bard, fired with the idea, make his just reflections in the following beautiful lines :

“ Extend thy narrow sight, consult with art,
 “ And gladly use what helps it can impart :
 “ Each better glass will larger fields display,
 “ And give thee scenes unthought of to survey.
 “ Assisted thus, what beauties may’st thou find
 “ In thousand species of the insect kind.
 “ Lost to the naked eye, so wond’rous small,
 “ Were millions join’d, one sand would cover all.
 “ Yet each within his little bulk contains
 “ A heart, which drives the torrent through its veins;
 “ Muscles to move its limbs aright; a brain,
 “ And nerves dispos’d for pleasure, or for pain ;
 “ Eyes to distinguish, sense, whereby to know
 “ What’s good or bad, is, or is not, its foe.
 “ They too are pain’d with love ; address the fair,
 “ And with their rivals wage destructive war.

M	D	21
1	2	3
6	1	22
11	1	22
16	2	23
21	2	23
26	2	24

Full Moon the 4th day, at 7 in the morning.
 Last Quarter the 11th day, at 2 in the morning.
 New Moon the 19th day, at 4 in the morning.
 First Quarter the 26th day, at midnight.

V	W	Remarkable Days, &c.	☉	☽ Longitude	☽ rises and sets	♂	♀	☿	Mut. Aspects and Weather.
D	D		°			°	°	°	
1			10	0 22	1 m 29	6	0	29	* ♀, * ♀
2	M	Wiltshire Trin.	11	15 17	2 14	6	1	23	♂ ♀
3	T	Camb. Com.	12	0 29	3 6	7	3	3	Dog Days b.
4	W	Tr. St. Mart.	13	15 49	☽ rises	7	4	6	Variable.
5	T	Old Midsu. d.	14	1 27	6 8 2 50	8	5	8	☐ ♂ ♀
6	F	Cam. T. ends	15	16 7	9 28	8	6	10	with winds
7	S	Tho. à Becket	16	0 46	10 1	9	8	12	
8			17	14 57	10 29	9	9	14	☐ ♂ ♀
9	M	Oxford Trin.	18	28 39	10 56	10	10	16	and rain.
10	T		19	11 55	11 23	10	11	18	♂ ☉ ♀
11	W		20	24 46	11 49	11	13	21	
12	T		21	7 18	morn	11	14	23	☐ ♀
13	F		22	19 35	0 16	12	15	25	
14	S	Ox. T. ends	23	1 41	0 48	13	16	27	☐ ☉ ♀
15		St. Sw.	24	13 39	1 22	13	17	29	Some re-
16	M	6 S. a. T.	25	25 33	2 3	14	19	31	☐ ♀
17	T		25	7 24	2 50	14	20	3	mission,
18	W		26	19 16	3 40	15	21	5	
19	F		27	1 9	☽ sets	15	22	7	☐ ♀
20	F	Margaret	28	13 6	8 2 14	16	24	9	dry, but
21	S		29	25 7	8 43	16	25	11	windy.
22			30	7 15	9 9	17	26	13	Margalen
23	M	7 S. aft. Trin.	1	19 33	9 34	18	27	15	
24	T		2	2 2	9 57	18	29	17	☐ ☉ ♀
25	W		3	14 48	10 22	19	30	18	* ♂ ♀
26	T	St. Almes	4	27 52	10 52	19	1	20	Wet weather
27	F		5	11 20	11 24	20	1	22	☐ ♀
28	S		6	25 12	morn	20	2	24	* ♀
29			7	9 30	0 3	21	4	25	
30	M	8 S. aft. Trin.	8	24 11	0 50	22	5	27	with gusts
31	T		9	9 10	1 44	22	6	29	of wind.

Now we, (as through the meads we pass,) Behold around the ripen'd grass,
Calls for the mower's aid;
So oft we see in manhood's prime,
Diseases sure as scythe of Time
Demand the sexton's spade.

M. O. rites. O. lets.
D. h. m. n. m.

O B S E R V A T I O N S.

G	3	46	8	14	" Each kind by instinct guided, finds its food,
2	3	46	8	14	" Brings forth its young, and guards the infant brood.
3	3	47	8	13	" In short excursions shew them how to rise,
4	3	48	8	12	" To poise their wings, and float along the skies;
5	3	48	8	12	" Before them lays the dangers of the plain,
6	3	49	8	11	" And warns them of the winds, and of the rain:
7	3	50	8	10	" With care paternal teaches them to know
G	3	50	8	10	" To save themselves, or to annoy the foe.
9	3	51	8	9	" Here too their wise Creator has design'd
10	3	52	8	8	" A different length of life to ev'ry kind;
11	3	53	8	7	" These breathe a longer, those a shorter space,
12	3	54	8	6	" Some very soon have run their destin'd race;
13	3	55	8	5	" Life, as it were, in miniature display,
14	3	56	8	4	" Are born, grow old, and die within a day,
G	3	57	8	3	" And yet their time as long to them appears,
16	3	58	8	2	" As ours to us, who number threescore years."
17	4	0	8	0	After admiration of these astonishing pro-
18	4	1	7	59	ductions of the Almighty FIAT, who can
19	4	2	7	58	avoid joining the contemplative Bard in this
20	4	3	7	57	natural and pious conclusion.
21	4	5	7	55	" Amaz'd, the wonders then of God behold,
G	4	6	7	54	" And meditate his mercies manifold.
23	4	7	7	53	" Oh! happy time! when shaking off this clay,
24	4	9	7	51	" The human soul at liberty shall stray
25	4	10	7	50	" Through all the works of Nature; shall descry
26	4	11	7	49	" Those objects which evade the mortal eye;
27	4	13	7	47	" No distance then shall stretch beyond its flight,
28	4	14	7	46	" No smallness 'scape its penetrating sight,
G	4	16	7	44	" Put in their real essence shall be shown
30	4	17	7	43	" Worlds unexplor'd; creations yet unknown."
31	4	18	7	41	

Full Moon the 2d day, at 2 in the afternoon.

Last Quarter the 9th day, at 3 in the afternoon.

New Moon the 17th day, at 7 in the afternoon.

First Quarter the 25th day, at 7 in the morning.

Full Moon the 31st day, at 10 at night.

M	W	Remarkable Days, &c.	☉	☽ Longitude	☽ rises and sets	♂	♀	☿	Mut. Aspects and Weather.
D	D		Ω			△	Ω	☿	
1	W	Lammas day	10	24 ^h 19	2 m 53	23	8	0	Thick and
2	T		11	9 ^m 28	☽ rises	23	10	2	△ h ☿
3	F		12	24 27	7 a 57	24	11	3	close, with
4	S		13	9 ^h 8	8 28	25	12	5	♂ 4 ♂
5	G	S. aft. Trin.	14	23 24	8 57	25	13	6	rain or
6	M	Transfigurat.	15	7 ^h 12	9 26	26	15	8	♂ ☉ ♀
7	T	Pr. Amelia b.	16	20 34	9 53	26	16	9	☿. of Jesus
8	W		17	3 ^h 30	10 20	27	17	11	lightning.
9	T		17	16 5	10 51	28	18	12	
10	F	St. Lawrence	18	28 22	11 24	28	19	13	Now more
11	S	Ps. Brunw. b.	19	10 ^h 27	morn	29	21	15	Dog days e.
12	G	S. aft. Trin.	20	22 24	0 2 m	22	16	16	Pr. Wales b.
13	M	[O. Lam.	21	4 ^h 16	0 46	0	23	17	favourable
14	T		22	16 7	1 35	1	24	19	for the
15	W	Assumption	23	28 0	2 30	1	26	20	* 4 ♀
16	T	D. of York b.	24	9 ^h 58	3 28	2	27	21	harvest.
17	F		25	22 2	☽ sets	3	28	22	♂ h ♂
18	S		26	4 ^m 14	7 a 16	3	29	23	Hot and
19	G	S. aft. Tri.	27	16 35	7 41	4	☿	24	
20	M		28	29 6	8 6	4	2	25	△ h ♀
21	T	D. of Clar. b.	29	11 ^h 50	8 31	5	3	26	fultry,
22	W		☿	24 47	9 0	6	4	27	with thunder
23	T		1	8 ^m 0	9 30	6	6	28	
24	F	St. Bartholo.	2	21 31	10 5	7	7	29	storms.
25	S		3	5 ^h 20	10 49	8	8	☿	
26	G	S. aft. Tri.	4	19 27	11 41	8	9	0	* ♂ ♀
27	M		5	3 ^h 51	morn	9	11	1	
28	T	St. Augustin	6	18 29	0 41	10	12	2	Mild rains,
29	W		7	3 ^m 15	1 5	10	13	2	but rather
30	T		8	18 3	3 5	11	14	3	pleasant.
31	F		9	2 ^h 45	4 24	12	16	3	

What though we find increase of days,
 Of light and heat, and cheering rays,
 While Sol is mounted high;
 His goal once reach'd, he stops not there;
 But quickly hastens to repair
 Down to the Southern sky.

M ☉ rises ☉ sets
 D h m h m

O B S E R V A T I O N S .

14	20	7	40	I think it is not at all foreign to the present article, viz. the divisibility of matter, and the surprising minuteness of its primary particles, if from the best authorities we collect some more instances; and although many whose studies have taken a different turn, may at first find it difficult to comprehend (nay, even to conceive) any living creature so minute; yet the assertions upon real examination by the learned, who declare nothing but from ocular demonstration, must acquit the author from any design of imposition; and while it proves the doctrine above-mentioned, beyond even a shadow of doubt, will, I hope, to the junior part of my readers, to whom this performance is particularly addressed, open a large field for contemplation, and, instead of idle amusements too fondly pursued, produce one of a much more noble nature, and higher tendency; while philosophy and devotion, hand in hand, conduct them to scenes of delight. It has been observed, and positively proved, that the appearance of different colours in water, such, for instance, as black, red, or green, is produced; and the change wrought by the production of a multiplicity of insects, of various kinds and colours; for there is no part of earth or water (nay, perhaps, nor is the pure air itself) free from the seeds of life. To elucidate this, take the following reflection of the learned and ingenious Mr. BRADLEY. This gentleman, after having given his observations upon an insect, which, by computation, he found
24	22	7	38	
34	24	7	36	
44	25	7	35	
G 4	27	7	33	
64	28	7	32	
74	30	7	30	
84	32	7	28	
94	34	7	26	
104	35	7	25	
114	37	7	23	
G 4	39	7	21	
134	41	7	19	
144	42	7	18	
154	44	7	16	
164	46	7	14	
174	48	7	12	
184	50	7	10	
G 4	51	7	9	
204	53	7	7	
214	55	7	5	
224	57	7	3	
234	59	7	1	
245	16		59	
255	26		58	
G 5	46		56	
275	66		54	
285	86		52	
295	106		50	
305	126		48	
315	146		46	

44 SEPTEMBER hath xxx Days

M	D	h	m
1	2	29	
6	2	m	
11	1	1	
16	1	2	
21	1	3	
26	1	4	

Last Quarter the 8th day, at 7 in the morning.
 New Moon the 16th day, at 9 in the morning.
 First Quarter the 23d. day, at 2 in the afternoon.
 Full Moon the 30th day, at 9 in the morning.

M	W	Remarkable Days, &c.	☉	☽	☿	♂	♀	♂	Mut. Aspects and Weather
D	D		☿	Longitude	☿	☽	☿	☽	
1	S	Giles.	10	17 14	☿	☽	☿	☽	Rather fair
2	G	13 S. aft. Trin.	11	17 24	☿	☽	☿	☽	Lon. b. 1666
3	M		12	15 11	☿	☽	☿	☽	R and fine
4	T		13	28 35	☿	☽	☿	☽	weather.
5	W		14	11 8 35	☿	☽	☿	☽	
6	T		14	24 13	☿	☽	☿	☽	
7	F	Enurhus.	15	6 11 34	☿	☽	☿	☽	Some re -
8	S	Nativ. V. M.	16	18 41	☿	☽	☿	☽	
9	G	14 S. aft. Tr	17	0 38	☿	☽	☿	☽	freshing
10	M		18	12 30	☿	☽	☿	☽	
11	T		19	24 22	☿	☽	☿	☽	showers of
12	W		20	6 18	☿	☽	☿	☽	
13	T		21	18 20	☿	☽	☿	☽	rain.
14	F		22	0 32	☿	☽	☿	☽	8 h 24
15	S		23	12 57	☿	☽	☿	☽	
16	G	15 S. aft. Tr.	24	25 34	☿	☽	☿	☽	
17	M	Lambert	25	8 25	☿	☽	☿	☽	
18	T		26	21 31	☿	☽	☿	☽	6 0 8
19	W	Ember Week	27	4 50	☿	☽	☿	☽	* 8 8
20	T		28	18 22	☿	☽	☿	☽	Good season-
21	F	St. Matthew.	29	2 6	☿	☽	☿	☽	able weather
22	S	K. Geo. III. c.	30	16 2	☿	☽	☿	☽	for the latter
23	G	16 S. aft. Tr.	1	0 7	☿	☽	☿	☽	harvest, and
24	M		2	14 19	☿	☽	☿	☽	so continues
25	T	H. Rood.	3	28 38	☿	☽	☿	☽	to the
26	W	St. Cyprian.	4	12 59	☿	☽	☿	☽	
27	T		5	27 19	☿	☽	☿	☽	end.
28	F		6	11 33	☿	☽	☿	☽	Prs. Royal b.
29	S	St. Michael	7	25 39	☿	☽	☿	☽	St. Jerome
30	G	17 S. aft. Tr.	8	9 31	☿	☽	☿	☽	

So man, who finds his health and strength
Increase as days increase in length,

While June succeedeth May ;

Shall find again in future hours,
That florid bloom, those manly pow'rs,
All wither and decay.

M O r i s e s O f e t s

D h m h m

O B S E R V A T I O N S.

				to be more than a thousand times less than the least dust of sand visible to the naked eye, proceeds thus :
1	5	16	6	44
G	5	18	6	42
3	5	20	6	40
4	5	22	6	38
5	5	23	6	37
6	5	25	6	35
7	5	27	6	33
8	5	29	6	31
G	5	31	6	29
10	5	33	6	27
11	5	35	6	25
12	5	37	6	23
13	5	39	6	21
14	5	41	6	19
15	5	43	6	17
G	5	45	6	15
17	5	47	6	13
18	5	49	6	11
19	5	51	6	9
20	5	53	6	7
21	5	55	6	5
22	5	57	6	3
G	5	59	6	1
24	6	1	5	59
25	6	3	5	57
26	6	4	5	56
27	6	6	5	54
28	6	8	5	52
29	6	10	5	50
G	6	12	5	48

It is wonderful to consider the several parts of a creature even so minute as this, (for the microscope has discovered beings much smaller,) how small must the organs of its senses be in proportion to its body. The eye, for instance, perhaps a thousand times less, and the other parts answerable to them :

May we not then reasonably conclude, that with such eyes, it is capable of discerning other bodies which are as minute, and of as distant smallness to itself, as the smallest creature capable of our inspection is to us ? But, alas ! how trifling an object was the insect I have mentioned in comparison to those discovered by Mr. LEWENHOECK, in a quantity of pepper-water, no bigger than a grain of millet, in which he affirms he has seen ten thousand living creatures ; and some of his friends at the same time witness to have seen thirty thousand, and others above forty-five thousand creatures moving in the same quantity of water ! Nay, they further add, that because they would be within compass, they only related half the number which they believed they had seen.

Now it follows from the greatness of the numbers above-mentioned, that in a full drop of water there will be eight millions two hundred and eighty thousands of these animalcula ; which, if their smallness comes to be compared, a grain of sand broke into eight millions of parts would not exceed the smallness of one of these insects.

M	h	l	q
D	8	m	
	1	0	5
	6	9	6
	11	29	7
	16	29	8
	21	29	9
	26	28	10

Last Quarter the 8th day, at 2 in the morning.

New Moon the 15th day, at 11 at night.

First Quarter the 22d day, at 8 at night.

Full Moon the 29th day, at 10 at night.

M	W	Remarkable	☉	D	Lon-	D	rises	♂	♀	♂	Mut. A'spect's
D	D	Days, &c.	☾		gitude		and sets	♂	♀	♂	and Weather
1	M	Remigius	9	23	7	D	rises	3	24	21	
2	T		10	6	25	7	a 4	3	25	22	Variable
3	W		11	19	22	7	37	4	27	23	and un-
4	T		12	2	11	8	13	5	28	24	
5	F		13	14	23	8	53	6	29	25	settled
6	S	Faith.	14	26	32	9	38	6	30	27	weather.
7	G	18 S. aft. Tr.	15	8	30	10	29	7	1	28	
8	M		16	20	22	11	23	8	3	29	
9	T	St. Denys.	17	2	14	morn		8	4	1	More fair
10	W	Ox. & Ca. T. b.	18	14	10	0	22	9	5	3	Did Mich.
11	T		19	26	15	1	23	10	6	4	♂ ♀
12	F		20	8	32	2	27	11	8	6	and tempe-
13	S	Tr. K. Ed. Co	21	21	6	3	33	11	9	8	
14	G	19 S. aft. Tr.	22	3	58	4	42	13	10	9	rate.
15	M		23	17	10	D	sets	13	11	11	
16	T		24	0	40	5	a 50	13	13	13	
17	W	Etheldred	25	14	26	6	24	14	14	14	* ♂ ♀
18	T	St. Luke	26	28	26	7	3	15	15	16	Rather cold
19	F		27	12	35	7	49	16	16	18	winds,
20	S		28	26	50	8	43	16	18	19	with some
21	G	20 S. aft. Tr.	29	11	5	9	45	17	19	21	♂ ♀
22	M		30	25	17	10	52	18	20	23	downfall.
23	T		1	9	26	morn		19	21	24	
24	W		2	23	29	0	5	19	23	26	
25	T	K. G. Ill. ac.	3	7	24	1	19	20	24	28	Crispin.
26	P	K. Geo. Ill. pr.	4	21	12	2	34	21	25	29	[♂ ♀
27	S		5	4	50	3	48	22	26	31	Still cold
28	G	21 S. aft. Tr.	6	18	18	5	22	22	28	3	t. Si. & Jude
29	M		7	1	33	D	rises	23	29	4	and vari-
30	T		8	14	35	5	a 38	24	1	6	
31	W		9	27	23	6	11	25	1	8	able.

And you, my babes, some few years past,
 With tott'ring limbs, shall find at last
 That strength in which you trust
 Shall fade away; and quitting all
 That charm'd in this terrestrial ball,
 Those eyes be clos'd in dust.

M	☉ rises	☉ sets
D h	m h	m

O B S E R V A T I O N S.

1	6	14	5	46	Our truly learned and ingenious countryman, Dr. HOOK, has not only confirmed the above observations of the great LEWENHOECK, but has also improved them; for he tells us, that he had discovered immense numbers of these animalcula, mentioned by Lewenhoeck, and after that by making use of other lights and glasses, and magnifying them to a very considerable bigness; he discovered amongst them many other sorts, much smaller than those which he first saw; nay, he further adds, that some of them were so excessively minute, that millions of millions of them might be contained in one single drop of water.
2	6	16	5	44	
3	6	18	5	42	
4	6	20	5	40	
5	6	22	5	38	
6	6	24	5	36	
G 6	6	26	5	34	
8	6	28	5	32	
9	6	30	5	30	
10	6	32	5	28	
11	6	34	5	26	
12	6	36	5	24	
13	6	38	5	22	
G 6	6	40	5	20	Having thus far enlarged upon this second property of matter, we conclude it (after having observed, that the smallness of the object only increases the greatness of our astonishment,) with the words of a very ingenious author, as follows:—The knowledge of the wonderful things of nature quickens the taste of the creation, and renders it not only pleasing to the imagination, but highly useful to the understanding. It does not rest in an idle attention to the murmurs of brooks, and the melody of birds, in the shade of groves and woods, or in the embroidery of fields and meadows, but considers the several ends of Providence which are served by them, and the wonders of Divine Wisdom which appear in them. It heightens the pleasures of the eye, and raises such a rational admiration in the soul, as is little inferior to devotion.
15	6	42	5	18	
16	6	44	5	16	
17	6	45	5	15	
18	6	47	5	13	
19	6	49	5	11	
20	6	51	5	9	
G 6	6	53	5	7	
22	6	55	5	5	
23	6	57	5	3	
24	6	59	5	1	
25	7	1	4	59	
26	7	3	4	57	
27	7	4	4	56	
G 7	7	6	4	54	
29	7	8	4	52	
30	7	10	4	50	
31	7	12	4	48	

28 NOVEMBER hath xxx Days.

M	L	U
D	r	m
1	28	12
6	28	12
11	27	13
16	27	15
21	26	16
26	26	16

Last Quarter the 6th day, at 11 at night.

New Moon the 14th day, at 11 in the morning.

First Quarter the 21st day, at 4 in the morning.

Full Moon the 28th day, at 2 in the afternoon.

M	W	Remarkable Days, &c.	☉	D Lon- gitude	D rises and sets	♂	♀	☿	Mut. Aspects and Weather
D	D		m			↑	↑	m	
1	T	All Saints.	10	9 11 56	6 a 52	25	3	9	Rather
2	F	Pr. Edward b.	11	22 15	7 34	26	4	11	All So. ♂ 24 ♀
3	S	Prs. Sophia b.	12	4 22	8 22	27	5	12	♂ ☉ ♀
4	G	22 S. a. Tr.	13	16 19	9 15	28	6	14	Δ ♀ ♂, ♂ ☉ 24
5	M	Powder plot	14	28 11	10 11	28	7	16	cold winds,
6	T	Leon. Term b	15	10 Ω 1	11 10	29	9	17	but season-
7	W	Prs. A. So. b.	16	21 55	morn	10	10	19	able.
8	T	Ld. Mayor's d.	17	3 12 59	0 13	1	11	21	
9	F		18	16 16	1 17	1	12	22	
10	S		19	28 53	2 24	2	14	24	Now more
11	G	23 S. aft. Tr.	20	11 Δ 52	3 33	3	15	25	St. Martin
12	M	Ca. T. div. m.	21	25 16	4 43	4	16	27	fine and
13	T	Britius	22	9 m 5	5 56	4	17	28	mild.
14	W		23	23 17	D sets	5	19		
15	T	Machutus	24	7 1 45	5 a 37	6	20	2	
16	F		25	22 24	6 33	7	21	3	Cold frosts
17	S	Hugh Bp. Lin.	26	7 1 6	7 34	7	22	5	and bluster-
18	G	24 S. aft. Tr.	27	21 42	8 41	8	24	6	
19	M		28	6 3 9	9 53	9	25	8	
20	T	Edmund	29	20 21	11 7	10	26	9	Δ ♀ ?
21	W		1	4 19	morn	10	27	11	ing winds.
22	T	Cecilia	1	18 1	0 22	11	29	12	Dispart. D.
23	F	St. Clement.	2	1 1 30	1 35	12	13	14	
24	S		3	14 46	2 46	13	1	15	
25	G	25 S. aft. Tr.	4	27 50	3 55	14	2	17	D. Glouc. b.
26	M		5	10 8 43	5 3	14	4	8	Still windy,
27	T		6	23 26	6 9	15	5	20	with snow
28	W	Mich. T. ends	7	5 11 59	D rises	16	6	21	
29	T		8	18 20	5 a 23	16	7	23	* 24 ♂
30	F	St. Andrew	9	0 23 32	6 9	17	8	24	or fleet.

Deep sink these maxims in your head,
 Remember this when I am dead,
 Nor let me preach in vain;
 Manhood is but a summer's day,
 Life's autumn quickly fades away,
 And age an age of pain.

MI	h	m	h	m
----	---	---	---	---

OBSERVATIONS.

1	7	14	4	46	Having enlarged thus far upon extension
2	7	15	4	45	and divisibility, we come next to that other
3	7	17	4	43	property which we find in all matter, viz.
G	7	19	4	41	solidity.
5	7	21	4	39	<i>Solidity</i> , as the philosophers define it, is
6	7	22	4	38	that property in matter, whereby a body
7	7	24	4	36	resisteth all others that press upon it on every
8	7	26	4	34	side, and whereby it hinders all other bodies
9	7	27	4	33	from entering into that place which it pos-
10	7	29	4	31	sesseth, although they may be forced against
G	7	31	4	29	it with the greatest violence. Thus, when
12	7	32	4	28	a body is placed between two others, that
13	7	34	4	26	property, which prevents their coming into
14	7	36	4	24	close contact, is called solidity, or impene-
15	7	37	4	23	trability, as some term it, being that pro-
16	7	39	4	21	perty whereby two bodies cannot penetrate
17	7	40	4	20	each other, or be in the same place at once.
G	7	42	4	18	Some writers upon this subject have com-
19	7	43	4	17	pounded the terms, and called this property
20	7	44	4	16	<i>impenetrable solidity</i> ; and this, methinks, very
21	7	46	4	14	properly, as containing both the term itself
22	7	47	4	13	and its definition. And here we must ob-
23	7	48	4	12	serve, that all the primary particles of matter
24	7	50	4	10	are solids; and therefore this property is the
G	7	51	4	9	same exactly in liquid or fluid bodies as in
26	7	52	4	8	hard or fixed ones; for though one body
27	7	53	4	7	may drive another out of the place which it
28	7	54	4	6	now possesses, yet no two bodies can occupy
29	7	56	4	4	the same place at the same time; and a par-
30	7	57	4	3	ticle of water or air fixed between any two
					bodies, will as absolutely hinder their contact
					as an equal quantity of flint or steel.
					And as no body can exist without some ex-
					ternal shape, hence ariseth another property

30 DECEMBER hath xxxi Days.

M	D	h	m
1	26	18	
6	26	19	
11	26	20	
16	25	21	
21	25	22	
26	25	23	

Last Quarter the 6th day, at 7 at night.

New Moon the 13th day at 10 at night.

First Quarter the 20th day, 2 in the afternoon.

Full Moon the 28th day, at 8 in the morning.

M	W	Remarkable Days, &c.	☉	D lon- gitude	D rises and sets	♂	♀	☿	Mut. Aspects and Weather.
D	D		↑			h	h	↑	
1	S		10	12 ⁵⁵ 34	6 a 59	18	10	26	Δ h ☿
2	C	Advent Sun.	11	24 29	7 54	19	11	27	More fine
3	M		12	6 ^Ω 18	8 52	20	12	29	and mild
4	T		13	18 7	9 52	21	13	h	
5	W		14	29 59	10 53	21	15	2	for the
6	T	Nicholas	15	11 ^m 59	11 58	22	16	3	season.
7	F		16	24 13	morn	23	17	5	
8	S	Conception	17	6 ^Δ 47	1 5	24	18	6	
9	G	2 S. in Adv.	18	19 44	2 12	24	20	7	* 4 ♀
10	M		19	3 ^m 9	3 22	25	21	9	□ h ♂
11	T		20	17 4	4 35	26	22	10	Cloudy,
12	W		21	1 [↑] 27	5 48	27	23	11	with
13	T	Lucy	22	16 13	D sets	28	25	12	□ h ♀
14	F		23	1 ^h 15	5 a 5	28	26	13	cold rain.
15	S		24	16 22	6 11	29	27	15	
16	G	3 S. Ad. O. Sa.	25	1 ^m 23	7 24	28	28	16	Cam. T. ends
17	M	Oxf. T. ends.	26	16 12	8 40	1	29	16	Now frost
18	T		27	0 ^Δ 40	9 57	1	17		and snow
19	W	Ember week.	28	14 47	11 11	2	2	18	
20	T		29	28 30	morn	3	3	18	♂ ♂ ♀
21	F	St. Thomas.	h	11 ^Y 53	0 25	4	4	19	Shortest day
22	S		1	24 58	1 35	5	6	19	may be
23	G	4 S. in Adv.	2	7 ⁸ 47	2 42	5	7	19	expected.
24	M		4	20 24	3 47	6	8	19	
25	T	Christmas D.	5	2 ^h 50	4 50	7	9	19	
26	W	St. Stephen	6	15 6	5 50	8	10	18	Still unset-
27	T	St. John	7	27 15	6 45	9	12	18	tled, with
28	F	Holy Innocen.	8	9 ^Δ 17	D rises	9	13	17	
29	S		9	21 14	5 a 32	10	14	16	fnow or
30	G	S. aft Christ.	10	3 ^Ω 5	6 28	11	15	14	
31	M	Silvester.	11	14 54	7 27	12	17	13	flect.

Now the pale moon begins to rise,
 The sun retires to western sides,
 To light some distant shore;
 I hie me to my bed of pain,
 Perhaps to sleep and wake again,
 Perhaps to wake no more.

M. ☉ rises ☉ sets

D h m h m

O B S E R V A T I O N S.

17	58	4	2	viz. <i>figurability</i> , which is the universal dis-
G 7	59	4	1	position whereby it is necessitated to put on,
38	04	0	0	or appear in some shape or figure, which said
48	04	0	0	shape or figure is the shape or fashion of the
58	13	59		external superficies wherein the solid is con-
68	23	58		tained.
78	33	57		Another essential property common to all
88	43	56		bodies, simple or compound, is <i>mobility</i> , or a
G 8	43	56		capability of changing its place, in opposition
108	53	55		to rest, which is the continuance of a body
118	53	55		in the same place. Matter, however, is in-
128	63	54		different to either, and the cause of motion
138	63	54		is only an external force or power applied
148	73	53		to any body, which, being superior to its
158	73	53		resistance, repelleth or driveth it out of its
G 8	73	53		place.
178	83	52		These are the principal properties inherent
188	83	52		in all matter, there are others called acci-
198	83	52		dental or specific, such as <i>light</i> , <i>colours</i> , <i>sound</i> ,
208	83	52		<i>gravity</i> and <i>levity</i> , <i>attraction</i> , <i>electricity</i> , <i>trans-</i>
218	83	52		<i>parency</i> , <i>opacity</i> , <i>density</i> , <i>rarity</i> , <i>hardness</i> , <i>soft-</i>
228	83	52		<i>ness</i> , <i>rigidity</i> , <i>flexibility</i> , <i>consistence</i> , <i>fluidity</i> , <i>heat</i>
G 8	83	52		and <i>cold</i> , <i>humidity</i> , <i>ficcidity</i> , <i>elasticity</i> , <i>odours</i> ,
248	83	52		<i>vapours</i> , &c. &c. &c. But of these, with the
258	73	53		laws of Nature, and the various uses to
268	73	53		which natural philosophy, with the assistance
278	73	53		of the mathematics, is applied in every
288	63	54		branch of science, if life permits, we shall
298	63	54		regularly treat, from time to time; and when
G 8	53	55		death shall stiffen the hand of the present
318	53	55		writer, he wishes a more able one may take
				up the pen.

SPECULUM ANNI:

O R,

SEASON ON THE SEASONS.

For the YEAR of our LORD, 1792.

THE SECOND PART.

Containing variety of matter in prose and verse, part necessary to complete a performance of this kind, part collected or composed by the author, for the instruction and improvement of British youth, or of those who, in the humble vale of life, have souls superior to the opportunities given them, to improve in the various branches of science; and concluding with the kind contributions of his learned and ingenious correspondents, to whom he once more returns his sincere thanks for their favours and generous assistance in a work designed at least

“ To raise the soul by tender strokes of art,

“ To wake the genius, and to mend the heart;”

“ To make mankind in Nature’s study bold;—

“ Look o’er each scene, and mark what they behold.

I cannot preface this second part of my annual performance better than with the following epistle, which I have lately received from my old friend SENEX, which, without any apology, I shall transcribe verbatim.

S I R,

IT is with the greatest satisfaction that I hear from undoubted authority of the increasing sale of your annual performance; and as I have ever been a sincere well-wisher to the work, I take the liberty of troubling you once more, with such reflections as have at different times occurred to me, when I have considered upon perusal of yours, and other publications of the like nature, wherein, by following their plan, or deviating from it, you may make this your annual tribute to the public the most agreeable, or, what is of infinitely more value, the most useful.

In examining the various Almanacks, yearly published by the Company of Stationers, (for as to the spurious productions of other presses I never give them the reading,) I think those of most note, are as follows, viz. White’s *Ephemeris*: or, *ΑΤΑΑΖ ΟΤΡΑΝΟΖ*; Wing’s *Ολυμπια Δόματα*; Moore’s *Vox Stellarum*; Partridge’s *Merlinus Liberatus*; the *Gentleman’s and Ladies’ Diaries*; to which I will add this performance of yours; and that you may not want a facetious companion, I will conclude with *Poor Robin*; of whom I shall only say, I wish he may never want a laughable tale, nor an exhilarating glass to inspire him with the best manner of delivering it.

My

My observations upon the others please to take as follows :

White and *Wing* I look upon as excellent in their way ; but these truly commendable pieces of practical astronomy suit not the skull of the vulgar ; nor are composed to the taste of the multitude ; and are, therefore, not bought up with that avidity as others, which are of much less value. *Wing*, I observe, in his astrological judgments upon mundane affairs, drawn from observations of the celestial aspects, is very short ; yet, in my opinion, gives as much as a wise man would wish to see. Here is a lesson for you.

Of Seasons tell us what the poets sing ;

But in *predictions*, pray now copy *Wing*.

Moore and *Partridge* are, I suppose, the first-rate Almanacks of the astrological kind ; and I must needs say, that I find, upon comparison of the modern ones with some of former date, that their conjectures are full as shrewd, and equally well founded ; the language improved, the sentiments more catholic and generous ; and the whole delivered without half that jargon which those of older date were formerly pestered with.

These two appear to have so rapid a sale, as to have allured other presses to print off *quack performances*, under the same signature ; though of all the race of human beings, a *quack* in *astrology* is certainly the most contemptible.

As to the *Gentleman's* and *Ladies' Diaries*, I look upon them as productions of the first-rate *genii* in Great Britain, in the mathematical department ; nor will I pretend to give due praise to the poetical and enigmatical part ; I will only say, that these two collections, under the able hands of the present compilers, do their country annual credit, in the eyes of all competent judges ; but how few there are sufficiently skilled in these abstruse sciences, I leave every one to judge for himself. Now as the above-named performances are all written to adepts in the various branches on which they chiefly treat, the proper line for you to move in, and most likely to insure success, is to adapt yours to the cultivation of the mind, and understanding of the less intelligent and juvenile part of the present age ; and herein, if you acquit yourself with honour and honesty, by selecting from the best authors, from time to time, whatever you find may improve the mind, enlighten the understanding, and awake the curiosity of a rising generation ; in such a stile and manner that the *utile* and the *dulce* may ever be happily mingled together, you will do well ; and if you have not the public thanks, you will have what is of infinitely more value, viz. the testimony of a good conscience, that you have done your utmost endeavour to deserve them. I am, &c.

S E N E X.

C

Of

Of the ECLIPSES in the present Year 1792.

IN this present annual circuit of the Sun, there will be but two Eclipses, both of which will be solar, but both invisible to the inhabitants of Great Britain; of which take the following calculation for Greenwich, which may be depended upon, as coming from the *astronomer royal* of England.

March 22d ☉ eclipsed invisible.

Conjunction at 5 hours, 50 min. P. M. in lon. $0^{\circ} 2^{\circ} 49' \frac{1}{2}$.

☉ latitude $34'$ north.

The sun will be centrally eclipsed on the meridian, at 5h. 51 $\frac{1}{2}$ m. in lon. 87 deg. 52 $\frac{1}{2}$ min. west, and lat. $4\frac{1}{2}$ deg. north.

The same glorious luminary will again be eclipsed, though invisible to us on the 16th day of Sept. as follows:

Conjunction at 9 h. 18 m. A. M. in $5^{\circ} 24^{\circ} 8'$ lon.

☉ latitude $1'$ south.

At which time the sun will be centrally eclipsed on the meridian in lon. $40^{\circ} 30'$ east, and $1\frac{1}{2}^{\circ}$ north latitude.

In the postscript of my good friend's letter, he very judiciously observes, that in books of science, plagiarism is out of the question: since, where truth is established, the rule will be eternally the same; and not only he who adds to scientific knowledge, but he who delivers what has been before taught in the clearest light, deserves well of the public, and, not only the wholesale dealer, but the honest retailer in arts and sciences, is to the community a very useful man: he then proposes the following problem, which, being apropos to the subject we are upon, I shall here insert, with the method of solution, hoping it will be useful to some, and not disagreeable to any of our readers.

P R O B L E M.

To exhibit on the *terrestrial globe* in a general manner, all those places on the earth, to which a solar or lunar eclipse will be visible, the time thereof being known. In answer to this, I shall transcribe the following from an author of no small note. On the 1st day of April, A. D. 1764, was a very great eclipse of the sun, beginning at nine, the middle at half past ten in the morning, and ending about noon. Quere, to what parts of this terrestrial orb was it visible?

S O L U T I O N.

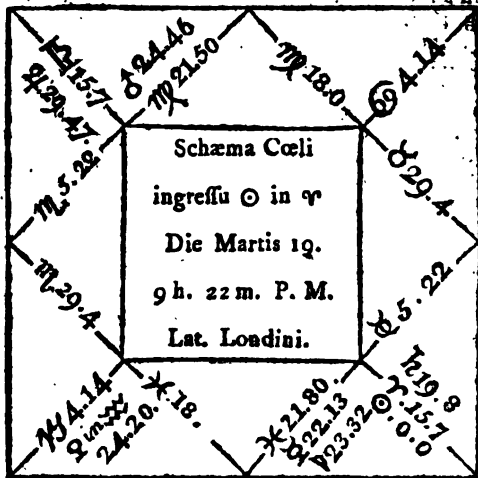
Having found the sun's place for that day, find that place to which the sun is vertical at half past ten on that day, that being the middle of the eclipse. This you will find to be near the middle of the continent of Arabia; to which, when you rectify the

the globe, you will observe all the middle parts of *Norway, Poland, Turkey in Europe, and the vast continent of Africa* to lie under the general meridian, and observe the middle of the eclipse at noon. Also all the hemisphere above the horizon indicates to you all those parts of the world in which the eclipse will be visible. Hence you will be convinced, that this solar defect was seen throughout all Europe and Africa, likewise all Asia, excepting the eastern part of Tartary, China, &c. But this eclipse could be seen only by the inhabitants of the eastern parts of South America. Now if you cast your eyes on the western part of the hemisphere, you will there observe those countries in North and South America, which lie upon the horizon, to be the habitations of those people who saw the sun rising at the middle of the eclipse.—Again, the eastern part of the horizon exhibits to your view those several countries, whose inhabitants saw the sun setting at the same time.—Again, if you bring London to the meridian, and place the hour index at nine in the morning, then revolve the globe until the index points at twelve, you then have a view of all those countries under the meridian, where the eclipse began at noon; particularly at *Madagascar, the inland parts of Arabia, the Persian Gulph, the Caspian sea, and of all the eastern parts of Russia in Europe*; but scarce any inhabited part of the earth saw the beginning of the eclipse at sun-rising, by reason that the western horizon lies almost wholly on the Great Atlantic and southern oceans. On the other hand, only a few of the eastern islands of Asia could see the beginning of the eclipse at sun-set.

Lastly, if you bring London to the meridian, and place the index at the upper twelve, you have then a view of all those places under the meridian, whose inhabitants see the dark disk of the moon departing from the sun at twelve o'clock. On the western horizon, you see the countries where the sun was rising when the eclipse ended; and in the eastern part of the horizon, you find in what part of the world the sun appeared to set with its entire lightened disk.

If then to sit with the world in miniature before you, and with the trifling data of the day of the month and the hour of the day in which any eclipse past, present, or to come has happened, now is, or shall happen, to find in what parts of the world it will be visible, and where not, with all the other circumstances above mentioned, can either amuse or gratify an enquiring mind, the author hopes to the curious the present page will not be unsatisfactory.

Indicium Astrologicum pro Anno Redemptionis. 1792.

Cunctis qui placeat, non credo quod modo vivat.

I hope the despisers of this antiquated science of astrology will not grudge those who still retain some belief in those doctrines, which their forefathers held truly valuable, the small pittance of one single page, which is all in this Diary that is allotted for that subject. To those who understand these things, the whole scheme of the face of the heavens, at the entrance of sol into aries, is before them; and I wish every one to interpret for himself; to those who do not, but despise the art, and whom I may rank among the class of unbelievers, little will my interpretation avail; especially when I tell them, that in a prediction, three things are necessary, viz. fact, time, and place; in some of which I must acknowledge the best adepts in the science have often been found deficient. I will therefore conclude this page with the four quarters of the circling year.—The spring quarter begins on the 19th day of March, at 22 min. past 9 in the evening, at which time the sun just touching upon the equinoctial, enters upon ♈. The summer quarter begins June 20, at 19 min. after 7 at night; the sun then touching upon the tropical sign ♋. The autumnal quarter begins on the 22d day of Sept. at 4 min. after 9 in the morning, when the sun again touching the equinoctial, enters the sign ♏. Lastly, the winter quarter begins on the 21st day of Dec. the sun then entering upon the first scruple of the tropical sign ♐. Sicut hora, sic vita.

'Twas

"Twas at the close of a summer's evening, after having amused myself in a retired walk, with all the various beauties of an enchanting prospect, the fields and gardens clothed in beautiful verdure; the enamelled meads, the bright and various tinted sky, the waving corn; here the babbling brook, and there the rolling river, dark forests, and distant waterfalls: afar off glittered, in the sun-beams, the wide fashies of a spacious edifice of modern structure; and at a small distance stood, in an humble valley, the tottering remains of an ancient abbey, whose crumbling columns, and venerable shades, bespoke the ancient seat of solitude, where, in days of yore, devotion, retiring from the busy world, spent the calm evening of life in holy contemplation, I had returned, and was amusing myself in my little garden, with that excellent poem, by the immortal Grey, called, *An Elegy, written in a Country Church-yard*, when my friend's letter, before cited, was brought me. The sun withdrawing his parting ray, had scarce left me light sufficient to peruse it, the birds had sung their evening song, and retired to their nests; the bees had closed the labours of the day, and the whole scene truly pictured out the bard's description—

- " Now fades the glim'ring landscape to the sight,
 " And all the air a solemn stillness holds;
 " Save where the beetle wheels his drony flight,
 " And drowsy tinklings, lull the distant folds."

After deliberating upon the different turns of mind, in the various classes of mankind, true it is (said I) bountiful nature has been liberal of her favours, without regarding the state of the object on which she bestows them; classical learning may be the gift of opulent parents, but genius is alone the gift of heaven; and every little hamlet will produce some instance of those whose minds, if rightly cultivated, would have shone in some art or science, to which they seemed peculiarly inclined; for, as the great Akenfide justly observes,

- " ——— With wise intent,
 " The hand of Nature on peculiar minds
 " Imprints a different bias, and to each
 " Decrees its province in the common toil.
 " To some she taught the fabric of the sphere,
 " The changeful moon, the circuit of the stars,
 " The golden zones of heaven; to some she gave
 " To weigh the moment of eternal things
 " Of time, and space, and fate's unbroken chain,
 " And will's quick impulse."

And surely (thought I) he who writes for use, and not for fame, will never think his time better employed than when he is assisting those enquiring minds, who, walking in the vale of obscurity, lament the want of those advantages which are often thrown away upon the stupid sons of Plutus; who sees not that

“ Full many a gem of purest ray serene,
 “ The dark unfathom’d caves of ocean bear;
 “ Full many a flow’r is born to blush unseen,
 “ And waste its sweetness on the desert air.”

—Such indeed is the case with these — Walk (solitary reader) among the mansions of the dead; see the green turf that covers the humble villager; and think with the poet,

“ Perhaps in this neglected spot is laid
 “ Some heart once pregnant with celestial fire;
 “ Hands, that the rod of empire might have sway’d,
 “ Or wak’d to ecstasy the living lyre.”

And who, indeed, has not beheld the uninstructed youth viewing, with amazement, the grand scene of creation; while lost in contemplation, he wishes for some kind assistant to guide his steps through the dark maze of his enquiries; to persons of this description it is hoped that an annual performance of this kind will not only be the pleasing companion of a leisure hour, but a useful instructor, and a guide to better helps; and be assured, that it will always be the author’s highest satisfaction to find his endeavours crowned with any share of success.

Lastly, for the encouragement of genius in low estate, let me add, that instances have abounded in all ages of persons, who have rose superior to the frowns of fortune, the depression of poverty, and the shackles of ignorance, by a steady pursuit of that branch to which their natural genius inclined them; and for a true picture of profound learning, dwelling in the lowly cot of humble poverty, I think I cannot conclude this discourse better than with the following lines:

An EPI TAPH upon WILLIAM LLUELLING, the learned Col-
liet of Mangot's-field, in Gloucestershire, who died the 2d of
December, 1773, aged 86.

Beneath this humble turf there lies
An honest Collier, learn'd and wise.*;
His mind by love of wisdom fir'd,
To knowledge more than wealth aspir'd,
And thought it was a happy lot
To dwell with science in a cot.
To latest life, from early youth,
His search was philosophic truth;
And oft from nightly rest he stole †
To seek the charmer of his soul.
In Nature's book, by Nature taught,
He learn'd to think as *Newton* thought ‡;
And, with an astronomic eye,
Measur'd the rolling orbs on high;
And, with precision just and clear,
Mark'd out the orders of the year §:
To him were Nature's treasures known,
And science made them all his own ||.
What though nor state, nor letter'd name,
Enroll'd him in the list of fame;
His soul aspir'd to nobler things,
And left the world to Lords and Kings;
Content t' enjoy the better part,
A knowing head, and honest heart.
Accept, O! sage, the tribute due
To worth so simply great as thine;
And let the learn'd with candour view
What friendship offers at thy shrine.

* He worked in the coal mines at Kingswood all his days, for the support of himself and family.

† He often spent whole nights in viewing the stars, and in the study of the heavens.

‡ He read *Newton*, *Halley*, *Keil*, and other learned authors, and laid out 30l. in books of science, which money he saved out of the labour of his hands in his youthful days.

§ He made an Almanack.

|| He ground glasses to the greatest perfection, and to any focus required; he made refracting, reflecting, and double tubed telescopes, and also microscopes of every kind.

Dignum laude virum, musa vetat mori.

HORACE.

After

After having said thus much upon a subject truly worthy the notice of every philanthropist, I thought it incumbent upon me, to select some such recipes as I had formerly remarked in the course of my reading; which, to suit the persons for whom they are designed, require no previous knowledge in any particular science, are attended with no expence, and yet, to an ingenious mind, may be at least entertaining, if not useful.

The first I shall mention, and propose to be tried, is an observation upon the leech, by a gentleman who kept one several years, for the purpose of a weather-glass, having long observed in it a surprising sensation; and that the change of weather, even for days before, made a visible alteration in it. His remarks are these:

1. If the weather continues serene and beautiful, the leech lies motionless, at the bottom of the glass, and rolled together in a spiral form.

2. If it rains either before or afternoon, it is found crept to the top of its lodging, and there it remains till the weather is settled.

3. If we are to have wind, the poor prisoner gallops through his limpid habitation with amazing swiftness, and seldom rests till it begins to blow hard.

4. If a remarkable storm of thunder and rain is to succeed, for some days before, it lodges almost continually without the water, and discovers great uneasiness, in violent throes, and convulsive-like motions.

5. In frost, as in clear summer weather, it lies constantly at the bottom; and in snow, as in rainy weather, it pitches its dwelling upon the very mouth of the phial.

All the apparatus necessary for this experiment is a common eight ounce phial glass, about three-fourths filled with water, and covered on the mouth with a bit of linen rag; in summer he changed his water once a week, and in winter once a fortnight.

Instinct is a sure guide, when boasted reason often fails; and for my own part, I am of opinion, that these trifles, (as they may appear in the eyes of many,) merit more attention than is generally bestowed upon them.

To those who delight in contemplating the surprising beauty which all-bounteous nature displays in a garden, (as the most wonderful and unexpected effects are sometimes produced by the most simple means,) we will here present them with a method of obtaining *natural flowers* in winter, fresh blown any day they please, by only observing the following easy process:

Choose some of the most perfect buds of the flowers you would preserve, such as are the latest in blowing, and ready to open;

cut

cut them off with a pair of scissars, leaving to each, if possible, a piece of the stem, about three inches long; cover the end of the stem immediately with Spanish wax, and when the buds are a little shrunk and wrinkled, wrap each of them up separately in a piece of paper, perfectly clean and dry, and secure them in a dry box or drawer, and they will keep without corrupting.

In winter, or any other time, when you would have the flowers blow, take the buds over night, and cut off the end of the stem covered with the wax, and put the buds into water, wherein a little nitre or salt has been infused, and the next day you will, with satisfaction, behold the buds open, and expanding themselves, while the flowers display their most lively colours, and breathe their agreeable odours.

As the enigmatical part of this performance claims the subsequent pages, I shall here conclude with a method of preserving birds in their lively and beautiful colours, so that their brilliant appearance, freedom in their plumage, and animated attitudes, shall seem as natural in their lifeless state as if they still breathed.

To effect this, take a bird fresh killed, open the ventre, from the lower part of the breast-bone down to the anus, with a pair of fine pointed scissars, and extract the intestines, liver, stomach, &c. fill this cavity immediately with the following mixture, viz. common salt 1 pound, alum, powdered, 4 ounces, pepper ground 2 ounces, well mixed together, then sew up the wound, to prevent the mixture from falling out; then with a quill or wire, fill, by a little at a time, the throat from the beak down to where the stomach lay, with the same mixture, finely ground; open the head, near the root of the tongue, with the scissars, and having turned them three or four times round to discharge the brain, fill that cavity likewise with the same mixture. The bird thus filled, must now be hung up by the legs for about two days, that the salts may penetrate the muscles and ligaments which connect the vertebrae of the neck. Then place the bird in a frame to dry, in whatever attitude you shall choose. Here it must be held up by two threads, the one passing from the vent to the lower part of the back, and the other through the eyes; the ends of these threads are to brace the fowl up in its natural posture, and to fasten it to the beam of the frame above; lastly, the feet are to be fixed down with pins, or small nails: in a few weeks it will be dry and stiff, then take it out of the frame, fasten it with a pin through each foot on whatever you please; it will require no other support; the eyes must be supplied with proportionable glass beads, fixed in with strong gum-water.

The

The answers to the ENIGMAS, CHARADES, &c. &c. in our last Diary are as follow:

1st Enigma, Truth.	Anagram.	Charades.
2d a picture. or painting.	Lead, deal. 1st Rebus;	1st A smock-frock. 2d A block-head.
3d a circle.	Rosemary.	3d The nightmare.
4th woman.	2d Rebus,	4th A book-case.
5th water.	Hinckley.	

A general answer by Mr. Benjamin Kemp, in Reflections on a Spring Morning.

Hark! hark! what strains melodious greet mine ear;
 What pleasing sounds attune the atmosphere.
 See glorious sol's resurgent blaze appears,
 And wipes the verdure of night's silent tears.
 Aurora bright, *leads* on the coming day,
 While lofty *deals* their tow'ring tops display. } Anagram.
 The feather'd tribes in varied songs unite,
 And harmonize each bush with new delight.
 The chequer'd groves, with sweet ambrosial flow'rs
 Imbibe fresh odours from the cooling *show'rs*. } 5 Enig.
 To *smock-frock'd* swains, see *Rose mary* dispense, } Ch. 1 Reb.
 Its fragrant scent to cheer the ravish'd sense.
 Each rising landscape (mark unthinking youth)
 Displays the *portrait* of the god of *truth*. } 2 En. 1 En.
 Now in life's fertile spring where'er you dwell,
 In *town* or country, let each moment tell } 2 Reb, Hinckley.
 His praise, whose pow'r to *circle* can contain,
 No *book-case* nature's volume can explain, } 3 En.
 And man and *woman* seek alike in vain. } 4 Ch.
 Then let the *nightmare* not make thee its prey; } 4 En.
 Nor, like a *block-head*, waste the precious day; } 3 Ch.
 But watch the present time, deplore the past, } 2 Ch.
 And live each hour, as if it was your last.

All the enigmas answered by Mr. John Needham.

When the bright sun first breaks the shades of night,
 And gilds the distant eastern hills with light;
 The blooming flow'rs, with *painted beauties* glow; } 2 En.
 And grazing flocks their milk-white fleeces shew.
 But when the gloomy reign of night returns,
 Strip'd of her fading pride all nature mourns:
 No distant views attract our curious eyes,
 Wrapt in night's robe the whole creation lies.

Yet,

Yet, ev'n when darkness covers all the land,
 We view the traces of th' Almighty's hand;
 Millions of stars in heav'n's high vault appear,
 And, with bright glories, gild the boundless sphere.
 The silver moon her eastern couch forsakes,
 And o'er the skies her nightly circle makes. 3 En.
 Say; are those stars, which twinkling lustre send,
 Bright suns?—And rolling worlds those suns attend,—
 Man may conjecture;—new schemes may appear;
 Yet all these systems but conjectures are.
 But know this truth, that heaven's eternal King, 1 En.
 Who bade this universe from nothing spring,
 Can, at his word, bid rising worlds appear,
 And rising orbs th' all-powerful word shall hear.
 When to the western main the sun descends,
 To other lands a rising day he lends.
 While we with lovely woman spend the night— 4 En.
 The climes oppos'd, enjoy meridian light;
 Praise God, where land extends, or waters flow, 5 En.
 Angels on high, and mortals here below,
 The stars shall drop; the sun shall lose his flame;
 But thou, MY GOD, for ever art the same.

For a contrast to the above, please to accept of a general answer
 from my brother Diarian, POOR ROBIN, *Knight of the Burnt*
Island.

The truth, and a picture, a circle, a woman,
 And water, both which the Lord knows are full common;
 Seasonian bards, I have found on enquiry,
 The enigmas expound in my brother fool's Di'ry.
 Then follows an anagram, plaguing your head,
 To find out a way to make deal out of lead.
 Of the rebusses next, if I rightly have reckon'd,
 Rosemary the first is, and Hinckley the second.
 Then come four charades, see the order they fall in;
 (A plague take old Season;—he thought he'd have all in.)
 A smock-frock, and blockhead, the first two disclose;
 The nightmare and bookcase come next, I suppose.
 Said I to my wife, I have done, taking time to't;
 But this last line (quoth she) pray what have you to chime to't?
 Oh! d—— him, said I,—why let him find a rhyme to't.

On the Divine Attributes. A general answer, by Mr. T. Gell.

O! thou, who art omnipotence benign,
 All wise, all *truth*, Almighty, all divine;
 Can man attempt those attributes to name,
 Which angel tongues suffice not to proclaim?
 Thou gav'st the potent word; profoundest night,
 And chaos trembling heard, and sprung to light.
 The earth, the *waters* in the foaming sea,
 And circling sky originate in thee.
 Thy pow'r creative, made for man a *mate*,
 Her lovely *image* made his joys complete.
 Yet earth, sea, sky, e'en heav'n itself, and all,
 Shall, at thy frown, to pristine nothing fall.
 Ye men and angels, then, one chorus join,
 And with one voice proclaim him Lord divine;
 With souls exulting, hallelujahs raise,
 And in eternal anthems sound his praise.

1 En.

5 En.

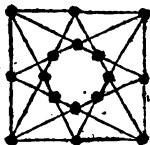
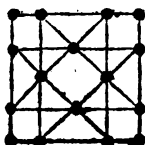
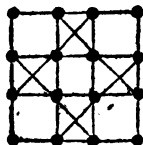
3 En.

4 En.

2 En.

Other ingenious answers were likewise received, which, for want of room, we are obliged to omit, paying our acknowledgments to Messrs. Nendick, Sator, Ward, Mr. Best, Q. M. &c. whose future favours are requested.

We have received three different answers to the paradox, which we insert, leaving every planter to take which schemes he chooseth. The 1st is by the author, (Mr. Ward gave the same;) the 2d by Mr. Best, Quarter-master of the Blues; and the 3d by Mr. T. Gell, who says, that if lines were drawn diagonal-wise, and from the middle to each side, there would then be twelve rows in the plan, and four trees in each row. Nearly in this manner is likewise Mr. Kemp's solution.



First Quere answered.

Mr. Ward refers to the Gentleman's Diary, 1791, p. 17. as in effect does Mr. Gell and Mr. Needham; Mr. Nendick says, he is informed, from good authority, that adders have been carried over at different times, and expired as soon as cast upon the Irish shore; however, he says, that toads are frequently seen in low places, and after much rain.

160. *Quere II. answered.*

Messrs. Nendick, Ward, and Needham say *Doomsday Book* was a survey of England, made by William the Conqueror, begun in 1080, finished in 1086; but Mr. Gell says, from *tab. mem.* it was begun in 900, and completed in 1080; Mr. Kemp says it was established by Alfred the Great, and called *Domboc*, implying doom, or determinations, when disputes should, in after-times, arise about ancient districts; and Mr. Cockrel observes, that *Doomsday Book*, stiled by Camden, *Gulielmi Librum consualem*, done by order of William the Conqueror, is deposited in the Chapter-house, Westminster; but we learn from Ingulphus, that King Alfred caused one to be wrote, which was lost in the days of Edward VI. which, as he observes, must consequently be the most ancient.

To the 3d *Quere*, the same gentleman is of opinion, no satisfactory answer can be given; nor indeed have we received any from the observations of Messrs. Kemp, Ward, Nendick, Needham, and Gell, we learn, that Diaphantus is the most accurate, who wrote thirteen books in Greek, about the year 800; but sketches are to be seen in authors of much greater antiquity. The Arabians are supposed the inventors, and that it was brought into Europe, A. D. 1494.

Quere IV. answered by Mr. Ward.

The three blue balls were the arms of a set of merchants from Lombardy, who first lent money on pledges. Mr. G. Sim— adds to this, that they dwelt in London, in one street, from thence called *Lombard street*. Moreover, as they are fixed like three circles, inscribed in a triangle, viz. one at the vertex, and two on the base, a mystical meaning is likewise comprehended, which is, that if an article once gets there, it is two to one whether it ever comes back again.

Quere V. answered by Mr. Gell.

The reputed time of Christ's birth was never settled till A. D. 527, when Dionysius Exiguus, a Roman Abbot, fixed it at the end of 4743 years of the Julian period. Now by the testimony of Josephus, (lib. 15. cap. 8.) there was an eclipse of the moon in Herod's last illness a little before his death; this happened in 4710 of the Julian period, on March 13, 3 h. 21 m. after midnight, at Jerusalem. Now Christ must have been born some months before Herod's death, *ergo*, the latest time at which the true *æra* can be fixed, is about the end of 4709, of Julian period, which is four years before the reputed *æra* of Dionysius, (vide R. Astro.) This was also answered by Mr. Needham.

New

New QUERIES proposed.

- 1st by Mr. Nendick.—Who were the wise men who came from the East? (Matt. Ch. I. v. 1. 2.)
 2d by Hoity-toity.—Why is the English alphabet called the Christ-crofs row?
 3d by Mr. G. Sim—n.—From whence arose the original of Free-masonry?
 4th by Mr. Ward.—Why do Judges in the House of Lords sit upon wool?
 5th by Mr. Kemp.—What was the original meaning of the passing-bell, who was its first institutor, and for what purpose?
 6th by Mr. Needham.—Required the origin of the proverb—Owls to Athens.

New ENIGMAS for the Year 1792.

First Enigma by Mr. Benjamin Kemp.

I have a head that ne'er did ache,	Some say I'm false, with lies replete,
A face likewise, of beauteous make;	That my two hands both deal deceit;
Two hands which take an active part	But, if I err by morn or night,
A pleasing voice, a throbbing heart;	You're always free to set me right.
A firm pulsation, beating strong,	Then to my task I'm just and true,
Which actuates my tuneful tongue.	Pray who can say as much by you?

Second enigma by Mr. John Needham.

Though I oft now am curst, you will find that at first
 I neither had blemish nor stain;
 Although now be it known, that so vile I am grown,
 Ev'n the Scriptures of me do complain.
 In Turkey they say I'm sometimes torn away,
 By violence from my strong hold;
 Although that's guarded so, both above and below,
 With pillars more valu'd than gold,
 Seasonian wits, in your poetic fits,
 When you study what I am to tell,
 Ask Phœbus to fire ye,——not me, I desire ye,
 For I'm set on fire by hell.

Third enigma by Mr. Thomas Gell.

Ye witty sages all attentive be,
 And deign awhile to turn your thoughts on me.
 I, with my parent, wander'd in this isle,
 Emblem of innocence, and free from guile;
 In that blest state, I rovd about secure,
 Nor dream'd of ills I after must endure;

But no one knows the ills the're doom'd to bear;
 Our ignorance is our greatest blessing here.
 My parent slain, I straight from her was torne,
 And far away by savage hands was borne
 To a new tyrant, where I undergo
 A change, both in my name and nature too;
 And, like a slave, alas! am doom'd to bear
 Whatever is committed to my care.
 To some I am a pleasing present found,
 While to their sorrow, some, alas! are bound,
 Till either time or Plutus sets them free,
 And jarring parties oft refer to me.
 Ye bards who range in bright Apollo's field;
 Ye lovely nymphs, to whom glad shepherds yield,
 Make known your wond'rous without delay,
 While I, in Season's page, through counties stray.

Fourth Enigma by the same.

Ye wits of enigmatic fame	But if I once my prison break,
Attend my tale, and shew my name.	A speedy flight I always take,
I, to be true and faithful found,	And up and down in hurry tost,
In closest durance must be bound,	Am quickly found, and quickly lost.
Not to be seen, or in disguise,	Whoever does my name explore,
And my best keepers are the wife.	They may survive, but I'm no more.

Fifth Enigma by Mr. Joseph Nendick.

See from the earth a station'd friend arise,
 With head erected to the vaulted skies;
 Torne from my parent's womb, I'm doom'd to feel
 The strength of arms, and unrelenting steel.
 Again they hence convey me to the tomb,
 And shroud my uncouth parts in Nature's womb.
 Brethren I've many all around the land,
 Equals in use, and equidistant stand;
 Nor us despise; while faithful to our station,
 We're not the only blocks that guide the nation.
 And, while erect, we dare impending rains,
 We grace the barren, not the fruitful plains.

First Rebus by Mr. John Ward.

The partial blind goddess by fools oft care's'd,
 The maid transpos'd at Telethusa's request;
 She, who caus'd a man by his dogs to be torn,
 And an island now fix'd where the goddess was born;
 The river which creditors wish'd are to drink on,
 He who was devoted, (most horrid to think on,)
 To eat his own flesh. The initials, no doubt,
 Make an instrument, concerts can't well do without.

Second Rebus by Mr. Benjamin Kemp.

Two thirds of a bird that's oft heard in the spring,
And a term steady Time upon all things will bring,
Will give you the name of a man whom you'll find
If he sees his condition, had better be blind.

First and second Charades by R. A—d.

My first spreads desolation all around,
My next is of great use to chancellors found;
My whole explains to you a borough's name,
Which titles one enroll'd in lists of fame;

My first the reverse is of old,
My second's a very great weight;
My third will unto you unfold
A philosopher noted of late.

Third Charade by Mr. Joseph Nendick.

Qualities good and bad belong to me,
And in my second oft my first you'll see.

Fourth Charade by Mr. J. Needham.

Triumphant heroes in my first, ride from the hostile plain,
And Sylvia is in my next, when tear'd by Hodge the swain;
My whole is gorgeous to behold, and ev'ry eye may see't;
But I, alas! am trampled on, whenever gentry meet.

Fifth Charade by Mr. T. Gell.

When my first is on high,
And serene in the sky,
How pleasant my next does appear;
And right happy they are,
Holy writ doth declare,
Who the whole in true faith do revere.

Thanks are once more given to all our kind contributors, in particular to Messrs. Ward and Needham, Hinckley; Mr. Bell, Q. M. Mr. T. Gell, Mettle hall, Sator; Mr. Sim—n, Thingdon; Mr. Joseph Nendick, Old Malton; Mr. R. A—d; Mr. B. Kemp, Farnsfield; Mr. Richard Cockrell, Lartindon; and other kind correspondents, whose modesty has disguised their names, as well as to those whose lucubrations, for want of room, we could not possibly insert; hoping for their future assistance, and every hint to render this performance still more useful and amusing, will ever be gratefully acknowledged

By their obliged humble servant,

The EDITOR.

Ὀλύμπια Δῶματα

O R, A N

ALMANACK

For the YEAR of

Our LORD GOD, 1792;

Being

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5796.

Wherein are Contained the Lunations, Conjunctions,

Aspects, and Effects of the Planets; the Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough Town of Stamford (formerly a famous University) whose Latitude is 52 Deg. 20 Min. fitting all the middle Counties of ENGLAND, and, without sensible Error, the whole Kingdom.

Non est e Terris mollis ad Astra Via.

By **TYCHO WING**, Philomath.

L O N D O N:

Printed for the COMPANY of STATIONERS,
And sold by ROBERT HORSFIELD, at their Hall, in Ludgate-Street.

[Price, stitched, TEN-PENCE.]

Common NOTES and Moveable FEASTS.

Dominical Letter	- AG	Septuagesima Sund.	Feb. 5
Golden Number	- 7	Shrove Sunday	Feb. 19
Easter	- 6	Easter Day	April 8
Cycle of the Sun	- 9	Whit-Sunday	May 27
Roman Indiction	- 10	Trinity Sunday	June 3
Number of Direction	- 19	Advent Sunday	Dec. 2

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops, and Deans, exercising Ecclesiastical Jurisdiction in England, 1792.

<i>Archbishops.</i>	<i>Deans Names.</i>	<i>Sees. Names.</i>
Dr. John Moore	Dr. William Beller	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Beilby Porteus	Bishop Pretyman	London
Hon. Dr. S. Barrington	Bp. Hinchcliffe	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Winchester
Sir Wm. Ashburnham	Mr. Combe Miller	Chichester
Dr. Charles Moss	Lord Fran. Seymour	Bath & Wells
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. John Hinchcliffe	Dr. Cha. Man. Sutton	Peterborough
Hon. Dr. James Yorke	Dr. William Cooke	Ely
Dr. John Thomas	Dr. Thomas Dampier	Rochester
Dr. Richard Hurd	Hon. St. And. St. John	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Ross	Dr. Charles Harward	Exeter
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. J. Cornwallis	Dr. Baptist Proby	Litchf. & Cov.
Dr. Lewis Bagot	Dr. W. D. Shipley	St. Asaph
Dr. Richard Watson	Dr. Rob. Price, Prec.	Landaff
Dr. Edward Smalwell	Dr. Cyril Jackson	Oxford
Dr. Christoph. Wilks	Dr. John Hallam	Bristol
Dr. Geo. Pretyman	Dr. Sir Rich. Kaye, Bt.	Lincoln
Dr. E. V. Vernon	Dr. Jeffery Ekins	Carlisle
Dr. William Cleaver	Dr. George Cotton	Chester
Dr. Samuel Horsley	Mr. Wollaston, Prec.	St. David's
Dr. Richard Beadon	Dr. Josiah Tucker	Gloucester
Dr. George Horne	Dr. Joseph Turner	Norwich
	Bishop Thomas	Westminster
	Bishop Cornwallis	Windfor
Mr. Claudius Crigan		Sodor & Man

A TABLE OF TERMS and Returns for the Year 1792.

HILARY Term begins January 23, ends February 13.

Returns or Effoign Days.

		Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary	Jan. 20	21	22	23	Mond.
In fifteen Days of St. Hilary	27	28	29	30	Mond.
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Mond.
In eight Days of the Purif. of the Bl. V. M.	9	10	11	13	Mond.

EASTER Term begins April 25, ends May 21.

In fifteen Days of Easter	April 22	23	24	25	Wedn.
From Easter Day in three Weeks	29	30	M. 1	2	Wedn.
From Easter Day in one Month	May 6	7	8	9	Wedn.
From Easter Day in five Weeks	13	14	15	16	Wedn.
On the Mor. of the Ascension of the Lord	18	19	20	21	Mond.

TRINITY Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity	June 4	5	6	8	Friday
In eight Days of the Holy Trinity	10	11	12	13	Wedn.
In fifteen Days of the Holy Trinity	17	18	19	20	Wedn.
From the Day of the Holy Trinity in 3 Weeks	24	25	26	27	Wedn.

MICHAELMAS Term begins November 6, ends November 28.

On the Morrow of All Souls	Nov. 3	4	5	6	Tuesd.
On the Morrow of St. Martin	12	13	14	15	Thursd.
In eight Days of St. Martin	18	19	20	21	Wedn.
In fifteen Days of St. Martin	25	26	27	28	Wedn.

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but Four Days.

Note, The first and last Days of every Term, are the first and last Days of Appearance.

The Names of the Learned JUDGES in the Law.

I. Rt. Hon. Lord Thurlow, Lord High Chancellor.

Right Hon. Sir Richard Pepper Arden, Knt. Master of the Rolls.

II. In the { Rt. Hon. Lord Kenyon, Lord Chief J. Sir Nash Grose, Knt.
K. Bench. { Sir Wm. Henry Ashurst, Knt. Sir Fran. Buller, Bart.

III. In the { Rt. Hon. Al. Ld. Loughborough, L. C. J. Sir H. Gould, Knt.
Co. Pleas. { John Heath, Esq. Sir John Wilson, Kt.

IV. In the { Sir James Eyre, Knt. L. C. B. Sir Alex. Thompson, Kt.
Exchequer. { Sir Beaumont Hotham, Knt. Sir Rich. Perryn, Kt.

Sir Arch. McDonald, Knt, Att. Gen. Sir John Scott, Knt. Sol. Gen.

The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to be- gin <i>January 1.</i>				Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign	Y.	M.	D.	end	Kings Names		
William I.	1066 Oct. 14	20	10	26	405	William	1	
William II.	1087 Sept. 9	12	10	24	692	William	2	
Henry I.	1100 Aug. 2	35	3	29	657	Henry	1	
Stephen	1135 Dec. 1	18	10	24	638	Stephen		
Henry II.	1154 Oct. 25	34	8	11	603	Henry	2	
Richard I.	1189 July 6	9	9	0	593	Richard	1	
John	1199 April 6	17	6	13	576	John		
Henry III.	1215 Oct. 19	56	0	28	520	Henry	3	
Edward I.	1272 Nov. 16	34	7	21	485	Edward	1	
Edward II.	1307 July 7	19	6	18	465	Edward	2	
Edward III.	1327 Jan. 25	50	4	27	415	Edward	3	
Richard II.	1377 June 21	22	3	8	393	Richard	2	
Henry IV.	1399 Sept. 29	13	5	29	379	Henry	4	
Henry V.	1413 Mar. 20	9	5	11	370	Henry	5	
Henry VI.	1422 Aug. 31	38	6	4	331	Henry	6	
Edward IV.	1451 Mar. 4	12	1	5	309	Edward	4	
Edward V.	1483 April 9	0	2	13	309	Edward	5	
Richard III.	1483 June 22	2	2	0	307	Richard	3	
Henry VII.	1485 Aug. 22	23	8	0	283	Henry	7	
Henry VIII.	1509 April 22	37	9	6	245	Henry	8	
Edward VI.	1547 Jan. 28	6	5	8	239	Edward	6	
Q. Mary I.	1553 July 6	5	4	11	234	Q. Mary		
Q. Elizabeth	1558 Nov. 17	44	4	7	189	Q. Elizabeth		
James I.	1603 Mar. 24	22	0	3	167	James	1	
Charles I.	1625 Mar. 27	23	10	3	143	Charles	1	
Charles II.	1649 Jan. 30	36	0	7	107	Charles	2	
James II.	1685 Feb. 6	4	0	7	103	James	2	
Will. 3. & M.	1689 Feb. 13	13	0	23	90	William	3	
Q. Anne	1702 Mar. 8	12	4	24	78	Q. Anne		
George I.	1714 Aug. 1	12	10	10	65	K. George	1	
George II.	1727 June 11	33	4	14	32	K. George	2	
George III.	1760 Oct. 25	Crowned Sept. 22, 1761.						

The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.

I. To find the Time of High-Water in most Parts of
E N G L A N D.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coasts.

	H.	M.
Portsmouth, Queenborough, Southampton,	0	00
Rochester, Winchelsea, Flushing,	0	45
Downs, Gravesend, Ramkins, Guernsey,	1	30
Denbigh, Bell-Isle, Holy-Isle, Downs-Road,	2	15
London, Tinnmouth, Whitby, Hartlepool,	3	00
Scarborough, Berwick, Flushing, Staples,	3	45
Flamborough, Humber, Bridlington-Bay,	4	30
Plymouth, Ramsay, Newcastle, Severn,	5	15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,	6	00
Boston, Start-Point, Poulness, Bristol-Key,	6	45
Bridgewater, Milford Haven, Bixard, Wintertown,	7	30
Yarmouth, Isle of Wight, the Needles,	8	15
Isle of Man, Orkney, Pool, South-Foreland,	9	10
Dover, Harwich, Orfordness, Bullein,	10	10
Rye, Solebay, Margate-Road,	11	15

II. To find the Hour of the Night by the Shadow of the
Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table is the exact Time of Night. But in other Cases,

2. If the Shadow wants of 12, see how much it wants of it; which Time, subtracted from that of the Moon's Southing, leaves the Time of Night. *Note, You must add 12 Hours to the Moon's Southing, if Need be.*

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that Sum, if Need be.

TABLE of the MOON'S SOUTHING, of excellent Use to

	January		February		March		April		May		June		M
	h	m	h	m	h	m	h	m	h	m	h	m	D
1	6	a 18	7	a 6	6	a 35	7	a 45	8	a 3	9	a 8	1
2	7	3	7	53	7	22	8	32	8	51	10	2	2
3	7	48	8	40	8	10	9	19	9	40	11	0	3
4	8	33	9	27	8	5	10	7	10	31	morn		4
5	9	19	10	15	9	45	10	56	11	24	0	0	5
6	10	5	11	2	10	33	11	46	morn		1	2	6
7	10	52	11	4	11	21	morn		0	21	2	4	7
8	11	39	morn		morn		0	39	1	20	3	4	8
9	morn		0	36	0	9	1	33	2	20	4	1	9
0	0	26	1	23	0	58	2	30	3	21	4	55	10
1	1	13	2	10	1	4	3	28	4	20	5	45	11
2	1	59	2	58	2	40	4	27	5	17	6	33	12
3	2	45	3	47	3	34	5	26	6	11	7	20	13
4	3	31	4	39	4	26	6	23	7	2	8	6	14
5	4	17	5	32	5	26	7	18	7	51	8	52	15
6	5	4	6	28	6	24	8	10	8	38	9	38	16
7	5	54	7	26	7	22	9	1	9	25	10	25	17
8	6	47	8	25	8	19	9	50	10	11	11	12	18
9	7	42	9	24	9	14	10	38	10	57	11	50	19
0	8	40	10	22	10	7	11	25	11	44	o a		20
1	9	41	11	17	10	58	o a		12	0 a	31	1	21
2	10	42	o a		11	47	1	0	1	19	2	19	22
3	11	42	1	2	o a		37	1	47	2	3	4	23
4	0 a	40	1	51	1	24	2	35	2	54	3	48	24
5	1	34	2	39	2	12	3	23	3	40	4	33	25
6	2	26	3	27	3	0	4	10	4	26	5	18	26
7	3	15	4	14	3	48	4	57	5	11	6	4	27
8	4	2	5	4	4	35	5	44	5	56	6	52	28
9	4	48	5	48	5	22	6	31	6	42	7	43	29
0	5	34			6	10	7	17	7	29	8	38	30
1	6	20			6	58			8	17			31

Spring Quarter begins - March 19d 9h 22m afternoon.
 Summer Quarter begins - June 20 7 19 afternoon.
 Autumn Quarter begins - Sept. 22 9 4 morning.
 Winter Quarter begins - Dec. 21 1 35 morning.

find the Time of High-Water, and the Hour of the Night.

M	July		August		September		October		November		December		M
D	h	m	h	m	h	m	h	m	h	m	h	m	D
1	9	a 36	11	a 20	0	m 0	0	m 33	1	m 46	2	m 0	1
2	10	36	morn		0	54	1	23	2	35	2	47	2
3	11	39	0	19	1	46	2	13	3	24	3	33	3
4	morn		1	16	2	36	3	2	4	12	4	48	4
5	0	41	2	10	3	25	3	51	4	59	5	2	5
6	1	41	3	2	4	14	4	40	5	45	5	46	6
7	2	38	3	52	5	2	5	28	6	30	6	30	7
8	3	32	4	40	5	51	6	16	7	15	7	15	8
9	4	23	5	27	6	39	7	3	8	0	8	1	9
10	5	12	6	14	7	26	7	49	8	45	8	50	10
11	5	59	7	1	8	14	8	35	9	32	9	42	11
12	6	45	7	48	9	0	9	20	10	21	10	37	12
13	7	31	8	36	9	47	10	6	11	13	11	35	13
14	8	17	9	24	10	33	10	53	0	a 7	0	a 36	14
15	9	4	10	11	11	19	11	41	1	4	1	37	15
16	9	51	10	58	0	a 5	0	a 31	2	3	2	37	16
17	10	35	11	44	0	52	1	24	3	3	3	35	17
18	11	26	0	a 29	1	41	2	19	4	2	4	29	18
19	0	a 12	1	14	2	31	3	15	4	59	5	21	19
20	0	58	2	0	3	23	4	13	5	53	6	10	20
21	1	44	2	47	4	17	5	11	6	45	6	58	21
22	2	29	3	35	5	13	6	9	7	35	7	45	22
23	3	13	4	25	6	11	7	4	8	24	8	32	23
24	3	58	5	17	7	9	7	58	9	12	9	19	24
25	4	44	6	12	8	7	8	50	9	59	10	7	25
26	5	33	7	10	9	3	9	41	10	47	10	55	26
27	6	25	8	9	9	58	10	30	11	35	11	43	27
28	7	20	9	9	10	51	11	19	morn		morn		28
29	8	17	10	8	11	42	morn		0	24	0	30	29
30	9	17	11	5	morn		0	8	1	12	1	16	30
31	10	19	morn		0	57	0	57	2		2	13	31

Venus is a Morning Star till August 6, and then an Evening Star for the rest of the Year.

Jupiter is a Morning Star till April 15, then an Evening Star till November 3, and then a Morning Star for the rest of the year.

Lunations.

Full Moon 9th day, at 9 morning
 Last Quarter 17th day, at 2 morning
 New Moon 23d day, at 5 afternoon
 First Quarter 30th day, at 11 night

D	Superior rises	Venus rises
1	1 m 29	4 h 7
7	1 27	4 10
13	1 4	4 13
19	0 42	4 16
25	0 39	4 19

M	W	Holy Days, Orises & sets	D's Longit.	D's Declin.	D rises & sets	Aspects and Weather.
1	A	S. a. Ch. Circu	14 v 35	5 m 12	morn	
2	M	☉ rises 8h 4m	26 52	8 50	1 4	Dark, gloomy
3	Tu	☉ sets 3h 56m	8 8 56	12 2	2 7	☐ ☉ ☐
4	W		20 52	14 41	3 9	air, with
5	Th	Old Christ. day	2 II 43	16 41	4 7	fleet or snow.
6	F	Epiphany	14 34	17 59	5 4	Twelfth Day
7	S		26 26	18 31	6 55	* ♂ ♀
8	A	1 S. af. Epiph.	8 22	18 13	6 42	Lucia
9	M	Plow Monday	20 23	17 7	D rises	
10	Tu		2 23	15 14	5 a 46	Still wet,
11	W		14 45	12 39	6 49	and unsettled.
12	Th	O. New Y. day	27 8	9 29	7 52	
13	F	Cam. T. begins	9 m 40	5 51	8 59	St. Hilary
14	S	Oxf. T. begins	22 24	1 55	10 6	
15	A	2 S. af. Epiph.	5 22	2 12	11 16	
16	M		18 38	6 17	morn	☐ 2 ☐
17	Tu	Old Twelfth-d.	2 m 13	10 10	0 29	☉ ☐ ☐
18	W	Q. Ch. b. d. kept	16 10	13 34	1 42	Prisca
19	Th		0 1 30	16 15	2 54	☐ ☐ ☐
20	F	Fabian	15 10	17 50	4 5	☐ ☉ 2
21	S	Agnes	0 5 5	18 26	5 10	More dry,
22	A	3 S. af. Epiph.	15 8	17 40	D sets	Vint
23	M	Hil. Ter. beg.	0 9	15 39	4 a 32	and frosty,
24	Tu	☉ rises 7h 40m	14 58	12 38	5 47	and serene air.
25	W	Conv. St. Pau	29 27	8 54	7 3	
26	Th	☉ sets 7h 41m	13 30	4 45	8 18	
27	F	Pr. Aug. Fr. d.	5 0	3 34	9 29	
28	S	☉ sets 4h 26m	10 12	3 n 37	10 38	Rough winds,
29	A	4 S. af. Epiph.	22 55	7 27	11 44	with some downfall.
30	M	K. Ch. I. mar	5 8 17	10 52	morn	
31	Tu		17 24	13 43	0 50	

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	12 22	2 n 34	28 32	9 s 48	28 30	2 n 54	24 11	4 s 35
7	12 36	2 n 41	29 15	10 12	0 42	2 n 37	0 21	17 4
13	12 53	2 n 49	29 52	10 24	2 17	1 n 46	6 51	18 24
19	13 13	2 n 58	0 24	10 24	3 35	1 n 22	13 29	19 34
25	13 27	3 n 9	0 50	10 28	4 33	1 n 7	20 14	20 29

M	☉'s	☉'s
D	Longit.	Declin.

Observations

A	10 53	23 s 1
2	11 55	22 56
3	12 56	22 50
4	13 57	22 44
5	14 58	22 38
6	15 59	22 31
7	17 0	22 23
8	18 2	22 15
9	19 3	22 7
10	20 4	21 58
11	21 5	21 49
12	22 6	21 39
13	23 7	21 29
14	24 8	21 19
A	25 9	21 8
16	26 10	20 57
17	27 12	20 45
18	28 13	20 33
19	29 14	20 25
20	0 15	20 8
21	1 16	19 54
A	2 17	19 41
23	3 18	19 27
24	4 19	19 13
25	5 20	18 58
26	6 21	18 43
27	7 22	18 28
28	8 23	18 12
A	9 24	17 56
30	10 25	17 40
31	11 26	17 23

Day breaks at 5 59
 Twilight ends at 6 3
 Duration of twilight 2 9
 Length of day is 7 56
 Length of night is 16 0
 Day is increased 0 18
 Pole Star north at 5 24 aftern.
 Seven Stars south at 8 6 aftern.
 ☿ sets at 11 34 aftern.
 ♀ rises at 1 4 morn.
 ♂ rises at 10 16 aftern.
 ♀ rises at 4 21 morn.
 Day breaks at 5 48
 Twilight ends at 6 13
 Duration of twilight 2 5
 ☉ enters ♍ at 6 11 morn.
 Length of day is 8 34
 Length of night is 15 22
 Day is increased 0 58
 Pole Star north at 4 15 aftern.
 Seven Stars south at 6 53 aftern.
 ☿ sets at 10 28 morn.
 ♀ rises at 0 3 morn.
 ♂ rises at 9 22 aftern.
 ♀ rises at 4 44 morn.

Lunations.							M. D.	Jupiter rises	Venus rises
Full Moon		8th day, at	7 afternoon	1	9 a 54	5 m 6			
Last Quarter		15th day, at	7 afternoon	7	9 30	5 4			
New Moon		22d day, at	6 afternoon	13	9 6	5 0			
First Quarter		30th day, at	4 afternoon	19	8 41	4 59			
				25	8 16	4 50			
W	Holy Days, Orises & sets	D's Longit	D's Declin.	D rises & sets	Aspects and Weather				
1 Th	David	19 II 12	17 n 58	1 m 33	Dark, thick airy with cold winds.				
2 F	Chad	1 53 5	18 13	2 24					
3 S		13 0	17 41	3 10					
4 G	2 Sun. in Lent	25 21 16	20 20	3 52					
5 M	Orises 6h 25m	7 Ω 16	14 14	4 29	Δ 2 8				
6 Tu		19 42 11	20 5	5 0					
7 W	Perpetua	2 42 4	8 6	5 30					
8 Th		15 21 4	17 17	D rises					
9 F	Orises 5h 43m	28 33 0	10 6 a 53	6 a 53	Now more temperate and fair.				
10 S		12 2 0	4 s 1	8 6					
11 G	3 Sun. in Lent	25 29 8	4 9	19					
12 M	Gregory M.	9 m 30 11	43 10	32					
13 Tu		23 29 14	44 11	44	* 2 9				
14 W		7 1 35	16 55	midn					
15 Th	Orises 6h 5m	21 45 18	3 0	53					
16 F		5 55 18	4 1	54					
17 S	St. Patrick	20 11 16	56 2	44	8 0 8				
18 G	Midlent Sun.	4 21 14	47 3	34					
19 M		18 25 11	46 4	12					
20 Tu	Orises 6h 5m	2 21 8	0 4	45					
21 W	Benedict	16 5 4	2 5	15	Rather 8 8 8 w't and stormy.				
22 Th		29 35 0	10 10	D sets					
23 F	Orises 5h 49m	12 50 4	17 7 a 14	14					
24 S		25 47 8	6 8	22					
25 G	55. in L. Lady	8 8 27	11 27	9 28	Δ 2 9				
26 M	[Day	0 2 14	14 10	31					
27 Tu	Orises 6h 19m	3 11 16	19 11	30					
28 W		15 4 17	39 morn						
29 Th		26 59 18	11 0	23	and fine at the end.				
30 F	Cam. T. ends	8 51 17	5 1	11					
31 S	Oxf. T. ends	20 47 16	52 1	54					

Saturn		Jupiter		Mars		Venus	
Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
16 39 4	32	17 10 31	29	2 12 52	2 18 19	12	
7 39 4	49	0 48 10	23	29 30	3 39 9	28 17	47
13 18 22	5 5	0 22 10	12	27 16	4 29 16	39 16	4
19 5 5	22	29 50 10	0 24	55 5	19 23	52 14	5
25 19 50	5 3	29 14 9	47	22 38	6 4	13 6	52

M	☉'s	☉'s	Observations	
D	Longit.	Declin.		
1	11 34 41	7 5 12	☉ rises at 6 53 aftern.	
2	12 41	6 49	☉ rises at 5 5 morn.	
3	13 41	6 26	Day breaks at 4 36	
G	14 41	6 3	Twilight ends at 7 26	
5	15 41	5 40	Duration of twilight 1 16	
6	16 41	5 17	Length of day is 11 42 30 12	
7	17 41	4 53	Length of night is 13 00 54 13	
8	18 4	4 30	Day is increased 13 13 17 13	
9	19 40	4 6	Pole Star north at 1 15 aftern.	
10	20 40	3 43	Seven Stars south at 3 57 aftern.	
G	21 40	3 19	☉ sets at 7 59 aftern.	
12	22 40	2 56	☉ rises at 8 58 aftern.	
13	23 39	2 32	☉ rises at 5 28 aftern.	
14	24 39	2 8	☉ rises at 4 56 morn.	
15	25 39	1 45	☉ enters ♍ at 9 22 aftern.	
16	26 38	1 21	Day breaks at 4 2	
17	27 38	0 57	Twilight ends at 1 8 7 30 2 5	
G	28 37	0 34	Durat. of twilight 1 50 30	
19	29 37	0 10	Length of day is 12 26	
20	0 36	0 14	Length of night is 13 32 12	
21	1 36	0 37	Day is increased 4 55	
22	2 35	1 1	Pole Star north at 0 22 aftern.	
23	3 35	1 25	Seven Stars south at 1 3 3 4 aftern.	
24	4 34	1 48	☉ sets at 7 12 aftern.	
G	5 33	2 12		
26	6 33	2 35		
27	7 32	2 59		
28	8 31	3 22		
29	9 30	3 45		
30	10 29	4 9		
31	11 28	4 32		

Lunations.

Full Moon 7th day, at 7 morning
 Last Quarter 14th day, at 1 morning
 New Moon 21st day, at 8 morning
 First Quarter 29th day, at 10 morning

M	Jupiter	Venus
D	rises	rises
1	7 a 47	4 m 42
7	7 21	4 35
13	6 54	4 27
19	6 27	4 18
25	6 0	4 7

M	W	Holy Days,	D's	D's	D rises	Aspects and
D	D	Orises & sets	Longit.	Declin.	& sets	Weather
1	C	Palm Sunday	28 4	15 n 4	2 m 32	Rough
2	M	Orises 5h 30m	15 3	12 33	3 6	6 h 8
3	Th	<i>Richard Bp. Cb.</i>	27 33	9 25	3 37	winds and
4	W	<i>St. Ambrose</i>	10 m 22	5 46	4 5	cloudy.
5	Th	<i>Maundy Thursday</i>	23 31	1 44	4 31	Old Lady Day
6	F	Good Friday	7 1	2 s 29	4 58	8 24 8
7	S	Orises 6h 40m	20 50	6 41	D rises	
8	C	Easter Day	4 m 57	10 35	8 a 24	8 8 9
9	M	Easter Monday	19 7	13 56	9 34	Cold air,
10	Tu	Easter Tuesday	3 f 44	16 26	10 51	and
11	W		18 12	17 53	11 56	6 0 h
12	Th	Orises 5h 10m	2 3	18 11	morn	rather
13	F		16 56	17 20	0 53	cloudy.
14	S		1 4	15 24	1 43	
15	C	Low Sunday	15 0	12 36	2 23	8 0 24
16	M	Orises 6h 57m	28 43	9 8	2 56	Δ 8 8
17	Tu		12 14	5 14	3 26	
18	W	<i>Ox. & Ca. T. be.</i>	25 31	1 7	3 53	More fine
19	Th	<i>Al. bege</i>	3 37	2 n 59	4 19	and season-
20	F		21 2	6 52	4 47	able.
21	S	Orises 4h 53m	4 8	10 24	D sets	
22	C	2 S. aft. Easter	16 38	13 23	8 a 25	
23	M	St. George	8 56	15 45	9 25	
24	Tu		11 11	3 17	10 22	
25	W	St. Mark. Pre.	23 2	18 11	11 13	Term begins
26	Th	[<i>Mary b.</i>]	4 56	18 11	11 58	Variable
27	F	Orises 7h 18m	16 48	17 25	morn	
28	S		23 42	15 52	0 37	and showery
29	C	3 S. aft. Easter	10 42	13 37	1 12	
30	M		22 54	10 44	1 43	weather.

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	20 42	6 0	18 20	9 30	20 14	6 48	9 33	9 1
7	21 47	6 16	27 42	9 13	18 34	7 13	16 48	6 25
13	22 12	6 33	26 57	8 57	17 19	7 28	24 4	3 42
19	22 58	6 50	26 11	8 41	16 32	7 32	19 20	0 55
25	23 43	7 7	25 25	8 25	16 13	7 24	8 37	1 55

M	☉'s		☉'s		Observations	
	Longit.	Declin.	Longit.	Declin.		
G	12 27	4 55				h m
2	13 26	5 18			☿ rises at	7 43 aftern.
3	14 25	5 41			♂ sets at	5 22 morn.
4	15 24	6 4			♀ rises at	4 38 morn.
5	16 23	6 26			Day breaks at	3 13 morn.
6	17 22	6 49				
7	18 21	7 11			Twilight ends at	8 43
G	19 20	7 34			Durat. of twilight	2 11
9	20 19	7 56			Length of day is	13 28
10	21 17	8 18			Length of night is	10 28
11	22 16	8 40				
12	23 15	9 2			Day is increased	5 57 morn.
13	24 13	9 24			Pole Star north at	0 23 aftern.
14	25 12	9 45			Seven Stars south at	3 5 aftern.
G	26 11	10 6			☿ sets at	6 25
16	27 9	10 28				
17	28 8	10 49			☿ rises at	6 36 aftern.
18	29 6	11 9			♂ sets at	5 14 morn.
19	0 8	11 30			☉ enters ♈ at	10 4 aftern.
20	1 3	11 51			♀ rises at	4 16 morn.
21	2 2	12 11				
G	3 0	12 31			Day breaks at	2 36
23	3 58	12 51			Twilight ends at	9 27
24	4 57	13 10			Duration of twilight	2 23
25	5 55	13 30			Length of day is	14 28
26	6 53	13 49				
27	7 52	14 8			Length of night is	9 24
28	8 50	14 27			Day is increased	6 55
G	9 48	14 45			Pole Star north at	10 21 morn.
30	10 46	15 4			Seven Stars south at	1 3 aftern.

Lunations.

Full Moon 6th day, at 5 afternoon
 Last Quarter 13th day, at 8 morning
 New Moon 20th day, at 10 night
 First Quarter 29th day, at 2 morning

M	Jupiter	Venus
D	sets	rises
1	4 m 19	3 m 59
7	3 54	3 46
13	3 49	3 36
19	3 5	3 2
25	2 41	3 17

M W	Holy Days,	D's	D's	D rises	Aspects and
D D	Orises & sets	Longit.	Declin.	& sets	Weather
1 Tu	St. Phil. & Jam.	5 m 23	7 n 10	2 m 12	Cold
2 W		18 11	3 28	2 38	8 F 2
3 Th	Inu. of the Crof.	1 n 24	3 4 n	3 5	windy, with
4 F		15 2	4 55	3 32	some showers.
5 S	Orises 4h 28m	27 7	9 2	4 0	
6 G	4 Sun. af. East.	13 m 34	12 43	Drises	J. Ev. a. P. L.
7 M		28 18	15 39	8 a 38	8 F 2
8 Tu	Orises 7h 37m	13 12	17 36	9 48	
9 W		28 7	18 20	10 51	8 F 2
10 Th	Orises 4h 20m	12 54	17 49	11 43	Still wet,
11 F		27 27	16 9	morn	
12 S	Old May Day	11 m 42	13 29	0 27	and variable.
13 G	Rogation Sun.	25 36	10 6	1 4	
14 M		9 11	6 16	1 34	
15 Tu	Orises 7h 47m	22 26	2 12	2 1	8 O 2
16 W		5 v 26	12 54	2 28	
17 Th	Asc. Ho. Thu.	18 12	5 50	2 55	Now fine
18 F		0 8 45	9 28	3 20	
19 S	Q. Charl. born	13 9	12 36	3 48	Dunfear
20 G	S. af. Alceus.	25 24	15 10	Drises	
21 M	Easter T. ends	7 n 31	17 1	8 a 16	and pleasant
22 Tu	Prs. Eliza. bo.	19 32	18 7	9 9	weather.
23 W	Orises 4h 2m	1 n 28	18 24	9 57	
24 Th	Oxford f. e.	13 20	17 52	10 38	Δ 8 2
25 F		25 11	16 34	11 14	
26 S	Augustine Abp.	7 n 4	14 33	11 47	Still continues
27 G	Whit Sunday	19 3	11 54	morn	Ca. T. di. V. Bid
28 M	Whit Monday	1 m 13	8 42	0 14	fine and
29 Tu	W. Tu. K. Ch.	13 38	5 3	0 40	pleasant.
30 W	Em. W. [Il. re.	25 23	1 5	1 5	
31 Th	Orises 8h 7m	9 n 32	3 5	1 22	Δ 8 2

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Declin.	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	24 29	7 n 23	24 41	8 10	16 22	7 n 7	15 54	4 n 44
7	25 13	7 39	24 1	7 56	16 56	6 40	15 12	7 41
13	25 55	7 54	23 24	7 43	17 53	6 6	15 29	10 32
19	26 37	8 8	22 52	7 32	19 11	5 24	7 46	12 15
25	27 17	8 22	22 25	7 24	20 48	4 34	15 4	15 7

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	11 8 44	1	2	h. m.
2	12 42	15	9	h rises at 4 13 Morn.
3	13 40	15	7	h sets at 4 11 Morn.
4	14 38	16	14	h sets at 3 5 Morn.
5	15 36	16	31	h rises at 3 50 Morn.
G	16 34	16	48	
7	17 32	17	4	Day breaks at 1 44
8	18 30	17	21	Twilight ends at 10 23
9	19 28	17	37	Duration of twilight 2 54
10	20 26	17	52	Length of day 15 20
11	21 24	18	7	
12	22 21	18	22	Length of night 8 34
G	23 19	18	37	Day is increased 7 45
14	24 17	18	51	Pole Star north at 9 20 Morn.
15	25 15	19	5	Seven Stars south at 0 2 Aftern.
16	26 13	19	19	
17	27 10	19	33	h rises at 3 18 Morn.
18	28 8	19	46	h sets at 3 9 Morn.
19	29 6	19	58	h sets at 2 9 Morn.
G	0 3	20	11	Sun enters II at 10 37 Morn.
21	1 1	20	23	
22	1 59	20	34	h rises at 3 22 Morn.
23	2 56	20	46	
24	3 54	20	57	No real Night, but
25	4 51	21	7	All Day or Twilight.
26	5 49	21	18	
G	6 46	21	28	Length of day is 16 6
28	7 44	21	37	Length of night is 7 52
29	8 41	21	46	Day is increased 8 27
30	9 39	21	55	Pole Star north, at 10 58 Morn.
31	10 36	22	3	

Lunations

Full Moon 5th day, at 1 morning.	21	2	21	3 m
Last Quarter 11th day, at 4 afternoon.	27	1	46	3
New Moon 19th day, at 1 afternoon.	19	2	21	2
Last Quarter 27th day, at 2 afternoon.	19	0	56	4
	25	0	31	2

M	W	Holy-Days	Moon's	Moon's	D rises	Aspects and
D	D	Sun rises & sets	Longit.	Declin.	& sets	Weather
1	F	Nicomede	23 10	7 13	1m 57	Rather fine,
2	S	☉ rises 3 51	7m 17	11	2 26	but a little
3	G	Trin. Sund.	21 52	14 27	3 2	gloomy, if
4	M	K. G. III. bo.	6 49	16 56	3 43	not some
5	T	Pr. Br. Aug. b.	22 0	18 16	3 rises	Boniface.
6	W	Oxf. T. beg.	7 15	18 17	9 32	
7	T	Corpus Christi	22 22	17 1	10 20	rain.
8	F	Trin. T. beg.	7 12	14 37	11 1	
9	S	☉ sets 8 14	21 40	11 21	11 36	Δ 8 8
10	G	1 S. aft. Trin.	5 41	7 31	morn	
11	M	St. Barnabas.	19 17	3 24	0 4	Hot and
12	T		2 28	0 46	0 29	close, per-
13	W	☉ rises 3 44	15 20	4 47	0 55	haps some
14	T		27 54	8 31	1 21	
15	F	☉ sets 8 16	10 16	11 48	1 48	thunder.
16	S		22 28	14 32	2 18	
17	G	2 S. aft. Trin.	4 32	16 36	2 50	St. Alban.
18	M		16 31	17 56	3 25	
19	T		28 26	18 28	3 sets	Variable.
20	W	T. E. K. W. S.	10 18	18 11	8 33	showing
21	T	Longest Day	22 10	17 7	9 12	for rain.
22	F		4 2	15 18	9 45	☐ ☉ 8
23	S	☉ rises 3 43	15 57	12 51	10 14	Δ 4 8
24	G	3 S. T. N. J. B.	27 58	9 49	10 40	Midsum. Day.
25	M		10 8	6 20	11 7	
26	T	☉ sets 8 16	22 32	2 31	11 31	Brisk winds,
27	W	Trin. T. ends	5 15	2 30	11 57	Δ 4 8
28	T		18 20	5 34	morn	but pretty
29	F	St. Peter	1 52	9 29	0 21	
30	S		15 53	13 1	0 52	fair.

WING.

JUNE, 1792.

25

Saturn		Jupiter		Mars		Venus	
Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1 23 38	8 37	23 20	7 16	23 12	3 30	23 36	17 37
7 28 38	8 49	24 46	7 12	25 12	3 39	0 15	19 29
13 29 12	9 0	25 38	7 11	27 35	1 23	8 14	21 2
19 29 44	9 10	26 37	7 12	0 9	0 14	15 34	22 14
25 0 8 13	9 19	27 42	7 15	2 54	0 59	22 54	23 4

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	11 34	22 11		
2	12 31	22 10	Seven Stars south at	h. m.
G 13	28 22	26	h rises at	10 50 Morn.
4	14 26	23	h sets at	2 13 Morn.
5	15 23	22	h sets at	1 58 Morn.
6	16 21	22	h sets at	1 3 Morn.
7	17 18	22	h rises at	3 2 Morn.
8	18 15	22	No real night, but	
9	19 12	23	All day or twilight.	
G 20	10 23	6		
11	21 7	23		
12	22 4	23	Length of day is	16 30
13	23 2	23	Length of night is	7 28
14	23 59	23	Day is increased	8 48
15	24 56	23	Pole Star north at	5 16 Morn.
16	25 53	23		
G 26	51 23	26	Seven Stars south at	7 54 Morn.
18	27 48	23	h rises at	1 15 Morn.
19	28 45	23	h sets at	0 56 Morn.
20	29 43	23	Sun enters 23 at	7 19 Aftern.
21	0 40	23		
22	1 37	23	h sets at	0 1 Morn.
23	2 34	23	h rises at	2 56 Morn.
G 3	32 23	25	No real night, but	
25	4 29	23	All day or twilight.	
26	5 26	23		
27	6 23	23	Length of day is	16 32
28	7 20	23	Length of night is	7 28
29	8 18	23	Day is decreased	0 4
30	9 15	23	Pole Star north at	6 9 Morn.

Lunations										M	Jupiter	Venus
										D	sets	rises
Full Moon the 4th day, at 7 morning.										2	11	58
East quarter the 11th day, at 2 morning.										7	11	35
New Moon 19th day, at 4 morning.										13	11	23
First Quarter the 26th day, at midnight.										19	10	51
										25	10	29
D	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and					
M	D	Sun rises & sets	Longit.	Declin.	& sets	Weather						
1	G	4 S. aft. Trin.	0	22	15	53	1m	29	*	h	2	* h 2
2	M	Visitation	15	17	17	46	2	14	6	2	2	
3	T	Camb. com.	0	29	18	27	3	6	Dog-Days beg.			
4	W	Tr. St. Mart.	15	49	17	47	D rises		Variable			
5	T	Old Midsum.	1	6	15	51	8	2	50	□	6	2
6	F	C. T. ends.	16	7	12	52	9	28	weather			
7	S	Tho. a Becket	0	46	9	7	10	1				
8	G	5 S. aft. Trin.	14	57	4	58	10	29	□	6	2	
9	M	Oxford Act	28	39	0	41	10	56	through			
10	T		11	55	3	30	11	23	6	0	2	
11	W	Sun rises 3 53	24	46	7	23	11	49	the course			
12	T	Sun sets 8 6	7	18	10	51	morn		□	4	2	
13	F		19	35	13	46	0	16				
14	S	Oxf. T. ends	1	41	16	1	0	48	□	0	4	
15	G	6 S. aft. Trin.	13	39	17	34	1	22	Swithin.			
16	M		25	33	18	20	2	3	□	h	2	
17	T	Sun rises 4 0	7	24	18	18	2	50	of this month.			
18	W	Sun sets 7 59	19	16	17	28	3	40				
19	T		1	9	15	53	D sets		□	4	2	
20	F	Margaret	13	6	13	36	8	14	Sometimes			
21	S		25	7	10	43	8	43				
22	G	7 S. aft. Trin.	7	15	7	21	9	9	Magdalen.			
23	M		19	33	3	39	9	34	fair,			
24	T	Sun rises 4 9	2	2	0	17	9	57	□	0	h	
25	W	St. James.	14	48	4	16	10	22	*	6	2	
26	F	St. Anne	27	52	8	9	10	52	and			
27	S		11	20	11	45	11	24	□	h	2	
28	G	Sun sets 7 46	25	12	14	47	morn		*	4	2	
29	M	8 S. aft. Trin.	9	30	17	1	0	3				
30	T		24	11	18	13	0	50	sometimes			
31	F		9	10	18	10	1	44	four.			

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	0 40	9 27	21 54	7 21	5 48	2 15	0 15	23 30
7	1 3	9 34	22 11	7 29	8 50	3 34	7 36	23 31
13	1 24	9 39	22 35	7 39	12 0	4 55	14 58	23 7
19	1 41	9 44	23 4	7 52	15 16	6 17	22 21	23 19
25	1 54	9 47	23 40	8 6	18 40	7 40	29 45	21 7

M	Sun's	Sun's	Observations	
D	Longit.	Declin.		
G 0	12	23 5	h. m.	
1	9	23 0	Seven Stars south at	8 47 Morn.
3	6	22 55	h rises at	0 14 Morn.
4	3	22 50	l sets at	11 46 Aftern.
5	1	22 44	δ sets at	11 14 Aftern.
6	14	58 22 38		
7	15	55 22 31	♀ rises at	3 7 Morn.
G 16	52	22 24	No real night, but	
9	17	49 22 17	All day or twilight.	
10	18	47 22 9		
11	19	44 22 1		
12	20	41 21 53	Length of day is	16 12
13	21	38 21 44	Length of night is	7 50
14	22	35 21 34	Pole Star north at	5 13 Morn.
G 23	33	21 25	Seven Stars south at	7 54 Morn.
16	24	30 21 15		
17	25	27 21 5	h rises at	11 18 Aftern.
18	26	25 20 54	l sets at	10 55 Aftern.
19	27	22 20 43	δ sets at	10 28 Aftern.
20	28	19 20 32	♀ rises at	3 34 Morn.
21	29	17 20 20		
G 0	14	20 8	Sun enters ♏ at	6 11 Morn.
23	18	11 19 55	No real night, but	
24	2	9 19 43	All day or twilight.	
25	3	6 19 30		
26	4	3 19 16		
27	5	1 19 3	Length of day	15 34
28	5	58 18 49	Length of night	8 28
G 6	55	18 34	Day is decreased	1 6
30	7	53 18 20	Pole Star south at	3 58 Morn.
31	8	50 18 5		

Saturn		Jupiter		Mars		Venus	
Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1 28 5	9 24 26	8 23	22 43	9 18	8 22	19 15	15
7 2 11	9 49 25	8 42	26 20	10 42	15 47	17 18	18
13 2 23	9 49 26	9 2	0 9	12 6	23 12	15 3	3
19 2 32	9 46 26	9 23	3 46	13 28	0 23	12 34	34
25 2 5	9 43 27	9 44	7 36	14 49	8 4	9 52	52

Sun's		Sun's		Observations	
Long.	Decl.	Long.	Decl.		
1 9 48	17 49				
2 10 45	17 34			Seven Stars south at	6 36 Morn.
3 11 43	17 18			h rises at	10 10 Aftern.
4 12 40	17 2			l sets at	9 52 Aftern.
G 13 38	16 46			δ sets at	9 39 Aftern.
6 14 35	16 29				
7 15 33	16 12			ξ sets at	7 38 Aftern.
8 16 30	15 55			Day breaks at	1 51
9 17 28	15 37			Twilight ends at	10 5
10 18 25	15 20			Durat. of twilight	2 40
11 19 23	15 2				
G 20 21	14 44			Length of day	14 42
23 21 18	14 25			Length of night	9 22
14 22 16	14 7			Day is decreased	1 55
15 23 14	13 48			Pole Star north at	3 7 Morn.
16 24 12	13 29				
17 25 9	13 10			Seven Stars south at	5 45 Morn.
18 26 7	12 50			h rises at	9 15 Aftern.
G 27 5	12 30			l sets at	8 59 Aftern.
20 28 3	12 10			δ sets at	8 57 Aftern.
21 29 1	11 50				
22 29 59	11 30			Sun enters ♍ at	0 35 Aftern.
23 0 57	11 10			ξ sets at	7 20 Aftern.
24 1 54	10 49			Day breaks at	2 44
25 2 52	10 28			Twilight ends at	9 13
G 3 50	10 7				
27 4 48	9 46			Durat. of twilight	2 16
28 5 46	9 25			Length of day is	13 44
29 6 44	9 3			Length of night is	10 20
30 7 43	8 42			Day is decreased	2 55
31 8 41	8 20				

Lunations

M	Jupiter	Venus
D	sets	sets

1st Quarter the 8th day, at 7 morning.	1	8	14	2	4
New Moon the 16th day, at 9 morning.	7	7	54	8	55
1st Quarter the 23d day, at 2 afternoon.	13	7	35	6	45
Full Moon the 30th day, at 9 morning	19	7	16	6	35
	25	6	57	6	26

W	Holy-Days	Moon's	Moon's	D rises	Aspects and
D	☉ rises & sets	Longit.	Declin.	& sets	Weather
S	13 S. alt. Trin.	17 14	4 s 27	D rises	Mild and
M	Sun rises 5 22	19 24	0 3	7 a 30	Lon. burnt 1666
T	Sun sets 6 37	15 11	4 n 15	7 58	temperate
W	Enurhus.	28 35	8 12	8 26	weather.
T	Nat. B. V. M.	11 8 35	11 37	8 57	
F	14 S. alt. Trin.	24 13	14 25	9 30	
S	Lambert.	6 34	16 28	10 8	Moderate
M	Ember Week	18 41	17 44	10 51	flowers,
T	St. Matthew	0 38	18 12	11 38	morn
W	K. G. III. cr.	12 30	17 52	12 30	with gentle
T	17 S. alt. Trin.	24 22	16 46	0 30	gales.
F	St. Michael.	6 18	14 55	1 26	8 h 24
S	17 S. alt. Trin.	18 20	12 23	2 26	
M	St. Cyprian	0 32	9 18	3 28	
T	17 S. alt. Trin.	12 57	5 44	4 33	
W	H. Rood.	25 34	1 52	D sets	
T	17 S. alt. Trin.	8 25	2 8	6 a 44	☉ ☉ ☉
F	17 S. alt. Trin.	21 31	6 9	7 12	* ☉ ☉
S	17 S. alt. Trin.	4 50	9 54	7 42	Tolerable
M	17 S. alt. Trin.	18 22	13 12	8 16	weather for
T	17 S. alt. Trin.	2 6	15 48	8 57	the latter
W	17 S. alt. Trin.	16 2	17 31	9 44	
T	17 S. alt. Trin.	0 7	18 12	10 42	harvest.
F	17 S. alt. Trin.	14 19	17 45	11 45	
S	17 S. alt. Trin.	28 38	16 10	morn	
M	17 S. alt. Trin.	12 59	13 35	0 57	Brisk winds,
T	17 S. alt. Trin.	27 19	10 10	2 11	but mostly
W	17 S. alt. Trin.	11 33	6 9	3 28	dry.
T	17 S. alt. Trin.	25 39	1 50	4 43	Prs. Royal born
F	17 S. alt. Trin.	9 31	2 n 30	5 59	St. Jerome.

D.	Saturn	Jupiter	Mars	Venus				
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	18 54	9 n 38	29 5	10 2 11	12 m 9	16 2 20	16 2 44	6 n 32
7	1 40	9 32	om 9	10 34	16 8	17 35	24 11	3 32
13	1 23	9 25	1 16	10 59	20 11	18 46	1 38	0 29
19	1 4	9 17	2 25	11 23	24 18	19 53	9 6	2 36
25	1 41	9 8	3 37	11 48	28 28	20 54	16 33	5 39

D	Sun's	Sun's	Observations	
M	Long.	Decl.		
1	9 m 39	7 n 58		h. m.
G 10	37	7 36	Pole star north at	2 1 Morn.
3 11	35	7 14	Seven stars south at	4 43 Morn.
4 12	33	6 52	h rises at	8 11 Aftern.
5 13	32	6 29	h sets at	8 1 Aftern.
6 14	30	6 7		
17 15	28	5 44	δ sets at	8 17 Aftern.
8 16	27	5 22	♀ sets at	6 53 Aftern.
G 17	25	4 59	Day breaks at	3 28
10 18	23	4 36	Twilight ends at	8 29
11 19	22	4 13		
12 20	20	3 50	Durat. of twilight	2 4
13 21	19	3 27	Length of day	12 42
14 22	17	3 4	Length of night	11 22
15 23	16	2 41	Day is decreased	3 57
G 24	15	2 18		
17 25	13	1 55	Pole star south at	1 6 Morn.
18 26	12	1 31	Seven stars south at	3 48 Morn.
19 27	11	1 8	h rises at	7 16 Aftern.
20 28	10	0 45	h sets at	7 13 Aftern.
21 29	8	0 21		
22 0	7	0 2	Sun enters ♈ at	9 4 Morn.
G 1	6	0 26	δ sets at	7 45 Aftern.
24 2	5	0 49	♀ sets at	6 27 Aftern.
25 3	4	1 13		
26 4	3	1 36	Day breaks at	4 7
27 5	2	1 59	Twilight ends at	7 51
28 6	1	2 23	Durat. of Twilight	2 0
29 7	0	2 46	Length of day	11 40
G 7	59	3 10		

Lunations

Mt	Jupiter	Venus
D	sets	sets

Last Quarter the 8th day, at 2 morning.

New Moon the 15th day, at 11 night.

First Quarter the 22d day, at 8 night.

Full Moon the 29th day, at 10 night.

1	6	38	6	18
7	6	29	6	17
13	5	59	5	59
19	5	29	5	57
25	5	19	5	44

V	W	Holy-Days	Moon's	Moon's	D rises	Aspects and
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather

1	M	Remigius	23 ^r 7	6 ⁿ 38	D rises	
2	T		6 ^h 25	10	20	7 ^a 4 Unfettled
3	W	Sun rises 6 18	19	23	13	26 7 37 weather,
4	T	Sun sets 5 4 ^c	2 ^h 1	15	49	8 13 cold winds,
5	F		14	23	17	25 8 53 and some
6	S	Faith	26	32	18	11 9 38 rain.
7	G	18 S. aft. Trin.	8 ^m 30	18	7	10 29
8	M		10	22	17	15 11 23
9	T	St. Denys.	2 ^h 14	15	39	morn More fair
10	W	Ox. & Ca. T. b.	14	10	13	22 0 22 D. Dich. day
11	T		26	15	10	28 1 23 6 4 2
12	F	Sun rises 6 36	8 ^m 32	7	3	2 27 and favour-
13	S	Tr. K. Ed. Con.	21	6	3	16 3 33
14	G	19 S. aft. Trin.	3 ^h 58	0	46	4 42 able.
15	M	Sun sets 5 18	17	10	4	52 D sets
16	T		0 ^m 40	8	48	5 2 50
17	W	Etheldred	14	26	12	22 6 24 * 3 8
18	T	St. Luke.	28	26	15	15 7 3
19	F		12 ^f 35	17	16	7 49 Rather
20	S		26	50	18	15 8 43 windy,
21	G	20 S. aft. Trin.	11 ^h 5	18	4	9 45 8 0 2
22	M		25	17	16	44 10 52 with briske
23	T	Sun rises 6 57	9 ^m 26	14	24	morn showers.
24	W		23	29	11	13 0 5
25	T	K. G. III. ac.	7 ^h 24	7	26	1 19 Tufpin 8 6 8
26	F	K. G. III. pr.	21	12	3	17 2 34
27	S		4 ^h 50	1	n 1	3 48
28	G	21 S. a. Trin.	18	18	5	12 5 2 St. Simon & Jude
29	M		1 ^h 33	0	4	D rises Still, windy,
30	T	☉ sets 4 50	14	35	12	25 5 38 but inclined
31	W		27	23	15	16 6 11 to frost.

M. Saturn		Jupiter		Mars		Venus.		
D.	Long.	Decl.	D.	Long.	Decl.	D.	Decl.	
1	08 16	8 59	4	11 52	12 14	2	1 42	21 50
7	29 49	8 49	6	7 12	40	6	58	22 39
13	29 22	8 39	7	24 13	6	11 18	23 20	8 55
19	28 53	8 29	8	41 13	31	15 40	23 54	16 28
25	28 24	8 19	10	0 13	56	20 6	24 20	23 49

M. Sun's		Sun's		Observations	
D	Longit.	Declin.			
1	8 58	3 33			
2	9 57	3 56	Length of night is	12	32
3	10 56	4 20	Day is decreased	5	7
4	11 55	4 43	Pole star north at	9	7 Morn.
5	12 55	5 6	Seven stars south at	2	49 Morn.
6	13 54	5 29			
G 14	53	5 52	h rises at	6	10 Aftern.
8	15 53	6 15	h sets at	6	16 Aftern.
9	16 52	6 38	δ sets at	7	20 Aftern.
10	17 51	7 0	♀ sets at	6	3 Aftern.
11	18 51	7 23			
12	19 50	7 46	Day breaks at	4	41
13	20 50	8 8	Twilight ends at	7	17
G 21	50	8 30	Durat. of twilight	1	57
15	22 49	8 53	Length of day	10	36
16	23 49	9 15			
17	24 49	9 37	Length of night	13	30
18	25 48	9 58	Day is decreased	6	3
19	26 48	10 20	Pole Star north at	11	11 Aftern.
20	27 48	10 42	Seven Stars south at	1	53 Morn.
G 28	48	11 3			
22	29 47	11 24	Sun enters m at	5	1 Aftern.
23	0m 47	11 45	h rises at	5	8 Aftern.
24	1 47	12 6	h sets at	5	22 Aftern.
25	2 47	12 27	δ sets at	6	59 Aftern.
26	3 47	12 47			
27	4 47	13 7	♀ sets at	5	41 Aftern.
G 5	47	13 27	Day breaks at	5	12
29	6 47	13 47	Twilight ends at	6	46
30	7 47	14 7	Durat. of twilight	1	58
31	8 47	14 26			

Lunations

M	Jupiter	Venus
D	rises	sets

Last Quarter the 6th day, at 11 night.

New Moon the 14th day at 11 morning.

First Quarter the 21st day, at 4 morning.

Full Moon the 28th day, at 2 afternoon.

M	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather	
1	T	All Saints.	9	156	17 n	21 6 a 52	Cold, but
2	F	Pr. E. b. A. So.	22	15	18	7 7 34	☿ 4 ☿
3	S	Pr. S. b. h. a. b.	4	22	18	22 8 22	☿ 0 ☿
4	G	2 S. aft. Tr.	16	19	17	48 9 15	Δ h ☿, ☿ 0 4
5	M	Powder Plot	28	11	16	27 10 11	seasonable
6	T	Leon. Ter. b.	10	1	14	23 11 20	
7	W	☉ rises 7 24	21	55	11	42 morn	weather.
8	T	Pr. Aug. S. b.	3	m	59	8 30 0 13	
9	F	Ld. May. day	16	16	4	52 1 17	More mild
10	S	☉ sets 4 31	28	53	0	56 2 24	
11	G	2 S. aft. Trin.	11	52	3 s	10 3 33	St. Martin.
12	M	Ca. T. div. m.	25	16	7	14 4 43	and tempe-
13	T	Britius.	9	m	5	11 3 5	56 rate.
14	W		23	17	14	20 D sets	
15	T	Machutus.	7	45	16	48 5 a 37	
16	F	☉ rises 7 39	22	24	18	12 6 33	
17	S	Hugh Bp. Lin.	7	h	6	18 24 7 34	Cold bluster-
18	G	2 S. aft. Trin.	21	42	17	22 8 41	ing winds
19	M		6	m	9	15 14 9 53	
20	T	Edmund.	20	21	12	12 11 7	Δ h ☿
21	W	☉ sets 4 14	4	X	19	8 31 morn	for some
22	T	Ceci. O. Mart.	18	1	4	26 0 22	
23	F	St. Clement.	1	30	0	11 1 35	days.
24	S		14	46	11 n	0 2 46	
25	G	2 S. a. Trin.	27	50	7	56 3 55	O. of Glou. born
26	M	☉ rises 7 52	10	8	43	11 26 5 3	
27	T		23	26	14	22 6 9	Cloudy and
28	W	Mic. T. ends.	5	h	59	16 34 D rises	unsettled
29	T	☉ sets 4 4	18	20	17	59 5 a 23	* 4 ☿
30	F	St. Andrew	0	32	18	32 6 9	to the end.

Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Decl.
1	27 50	8 n	7 11	32 14	25 19	24 38	21 14
7	27 24	7 59	12 51	14 49	29 49	24 44	9 58
13	26 59	7 50	14 10	15 13	4 22	24 40	17 24
19	26 35	7 43	15 29	15 37	8 57	24 26	24 30
25	26 14	7 36	16 47	15 59	13 34	24 2	24 16

Sun's		Sun's		Observations	
M	Longit.	Declin.			
1	9m 47	14 s 45			
2	10 48	15	4	Length of day is	9 30
3	11 48	15	23	Length of night is	14 34
G 12	48 15	42		Day is decreased	7 8
5	13 48	16	6	Pole Star north at	10 1 Aftern.
6	14 49	16	18		
7	15 49	16	35	Seven Stars south at	0 43 Morn.
8	16 49	16	53	h sets at	5 34 Morn.
9	17 50	17	10	h rises at	6 58 Morn.
10	18 50	17	26	h sets at	6 46 Aftern.
G 19	51 17	43			
12	20 51	17	59	h sets at	5 36 Aftern.
13	21 52	18	15	Day breaks at	5 34
14	22 52	18	30	Twilight ends at	6 25
15	23 53	18	45	Duration of twilight	2 3
16	24 54	19	0		
17	25 54	19	15	Length of day	8 40
G 26	55 19	29		Length of night	15 24
19	27 55	19	43	Day is decreased	7 58
20	28 56	19	56		
21	29 57	20	9	☉ enters ♄ at	1 13 Aftern.
22	0 58	20	22	Pole Star north at	8 51 Aftern.
23	1 58	20	34	Seven Stars south at	11 33 Aftern.
24	2 59	20	46	h sets at	4 22 Morn.
G 4	0 20	58			
26	5 12	21	9	h rises at	6 10 Morn.
27	6 22	21	20	h sets at	6 38 Aftern.
28	7 22	21	30	h sets at	5 45 Aftern.
29	8 32	21	40	Day breaks at	5 52
30	9 42	21	50		

Lunations

M J V
D rises sets

Last quarter the 6th day, at 7 night.

New moon the 13th day, at 10 night.

First quarter the 20th day, at 2 afternoon.

Full moon the 28th day, at 8 morning.

1	5	55	5	1
7	5	37	6	1
13	5	15	6	15
19	4	56	6	29
25	4	36	6	46

M	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and
D	D	☉ rises & sets	Longit.	Declin.	& sets		Weather
1	S		12 23 34	18 n 15	6 a 59	Δ h ♀	
2	G	Advent Sund.	24 29	17 9	7 54	Rather	
3	M	☉ rises 8 0	6 Ω 18	15 20	8 52	fair and	
4	T	☉ sets 4 0	18 7	12 52	9 52		
5	W		29 59	9 52	10 53	mild wea-	
6	T	Nicholas	11 59	6 25	11 58	ther.	
7	F		24 13	2 38	morn		
8	S	Conception	6 47	1 s. 22	1 5		
9	G	2 S. in Adv.	19 44	5 24	2 12	* 2 ♀	
10	M		3 m 9	9 20	3 22	□ h ♂	
11	T	☉ rises 8 5	17 4	12 54	4 35	Cold bleak	
12	W		1 f 27	15 49	5 48	winds, with	
13	T	Lucy	16 13	17 47	☉ sets	□ h ♀	
14	F		1 h 15	18 34	5 a 5		
15	S	☉ sets 3 53	16 22	18 2	6 11	snow or	
16	G	3 S. in Adv.	1 23	16 15	7 24	O. Sap. Ca. T.e.	
17	M	Oxf. T. ends.	16 12	13 24	8 40	flect.	
18	T		0 x 40	9 47	9 57		
19	W	Ember Week	14 47	5 41	11 11		
20	T		28 30	1 23	morn	6 ♂ ♀	
21	F	St. Thomas.	11 53	2 n 53	0 25	Shortest Day	
22	S		24 58	6 54	1 35	Still cold,	
23	G	4 S. in Adv.	7 8 47	10 30	2 42		
24	M	☉ rises 8 8	20 24	13 35	3 47	and inclin-	
25	T	Christmas D.	2 50	16 0	4 50	ing to	
26	W	St. Stephen.	15 6	17 39	5 50	snow.	
27	T	St. John.	27 15	18 29	6 45		
28	F	Innocents.	9 23	18 29	D rises		
29	S	☉ sets 3 54	21 14	17 39	5 a 32	Unsettled	
30	G	S. aft. Christ.	3 Ω 5	16 4	6 28	and variable	
31	M	Silvester	14 54	13 48	7 27	weather.	

WING.

December, 1792.

31

D.	Saturn	Jupiter	Mars	Venus				
M.	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	25 56	7 31	18 4	16 21	18 12	23 29	9 41	24 44
7	25 41	7 27	19 20	16 41	22 52	22 46	17 6	24 7
13	25 31	7 25	20 34	17 1	27 33	21 54	24 30	23 3
19	25 23	7 24	21 47	17 20	2 15	20 52	1 53	21 36
25	25 20	7 24	22 56	17 38	6 58	19 41	9 15	19 46

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	10 5	21 59		
G 11	6 22	8	Twilight ends at	h. m.
3 12	7 22	16	Durat. of twilight	6 5
4 13	8 22	24	Length of day	2 9
5 14	9 22	31	Length of night	8 0
6 15	10 22	38		16 2
7 16	11 22	45	Day is decreased	8 40
8 17	12 22	51	Pole Star north at	7 40 Aftern.
G 18	13 22	56	Seven Stars south at	10 22 Aftern.
10 19	14 23	2	h sets at	1 50 Morn.
11 20	15 23	6		
12 21	16 23	11	h rises at	5 18 Morn.
13 22	17 23	14	h sets at	6 35 Aftern.
14 23	18 23	18	h sets at	6 17 Aftern.
15 24	20 23	21	Day breaks at	6 0
G 25	21 23	23		
17 26	22 23	25	Twilight ends at	6 0
18 27	23 23	26	Durat. of twilight	2 11
19 28	24 23	27	Length of day	7 44
20 29	25 23	28		
21 30	27 23	28	☉ enters h at	1 35 Morn.
22 1	28 23	27	Length of night is	16 16
G 2	29 23	27	Day is decreased	8 50
24 3	30 23	25	Pole Star north at	7 31 Aftern.
25 4	31 23	23		
26 5	32 23	21	Seven Stars south at	9 9 Aftern.
27 6	34 23	18	h sets at	0 37 Morn.
28 7	35 23	15	h rises at	4 26 Morn.
29 8	36 23	11	h sets at	6 34 Aftern.
G 9	37 23	7	h sets at	6 58 Aftern.
31 10	38 23	2		

32 Mercury's Longitude and Declination, for 1792.

Days	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	0 ^m 9	21 s 16	19 ^h 29 19 s 47	21 ^m 3	16 s 17	
4	3 1	20 2	20 47 20 10	25 41	14 55	
7	4 46	18 53	22 50 20 24	0 ^x 29	13 21	
10	5 1	17 57	25 Feb. 27 20 29	5 28	11 35	
13	3 31	17 24	28 31 20 23	10 March 37	9 38	
16	0 30	17 16	1 ^m 56 20 7	15 57	7 30	
19	26 ^h 42	17 31	5 38 19 38	21 29	5 11	
22	23 7	17 59	9 34 18 59	27 12	2 42	
25	20 33	18 33	13 43 18 8	3 ^r 6	0 4	
28	19 17	19 7	18 4 17 5	9 9	2 n 42	
1	17 ^h 24	6 n 29	28 8 55 22 n 13	21 8	14 n 15	
4	23 36	9 19	29 11 21 49	22 28	14 37	
7	29 41	12 2	28 R 43 21 5	24 June 27	15 14	
10	5 29	14 34	27 May 38 20 5	27 June 1	16 6	
13	10 51	16 48	26 May 5 18 54	0 ^m 9	17 8	
16	15 40	18 40	24 21 17 38	3 48	18 17	
19	19 49	20 9	22 42 16 26	7 58	19 31	
22	23 16	21 15	21 23 15 25	12 37	20 44	
25	25 57	21 57	20 D 33 14 41	17 45	21 53	
28	27 50	22 16	20 21 14 17	23 19	22 53	
1	29 17	23 n 37	0 ^m 1 12 n 13	3 16	4 s 45	
4	5 31	24 2	4 5 10 11	R 33 5	8	
7	11 56	24 3	19 19 8 10	2 54	5 0	
10	18 24	23 39	13 Aug 2 6 10	1 14	17	
13	24 48	22 51	17 Aug 2 4 13	28 ^m 45	2 59	
16	1 ^h 1	21 42	21 Aug 1 2 21	25 Sept 39	1 11	
19	7 2	20 16	24 18 0 36	22 Sept 33	0 n 50	
22	12 48	18 37	27 12 1 1	20 8	2 42	
25	18 19	16 9	29 4 2 27	19 D 0	4 3	
28	23 3	14 53	1 ^h 35 3 39	19 20	4 42	
1	21 ^m 9	4 n 36	9 21 14 s 21	25 15	25 s 41	
4	24 12	3 48	14 November 11 16 10	0 ^h 15	25 48	
7	28 8	2 29	18 58 17 11	4 December 31	25 42	
10	2 40	0 46	23 42 19 24	8 35	25 22	
13	7 33	1 s 13	28 2 20 19	12 19	24 50	
16	12 35	3 19	3 3 22 5	1 31	24 8	
19	17 41	5 28	7 4 23 11	17 53	23 17	
22	22 46	7 37	12 16 24 6	19 5	22 25	
25	27 49	9 44	16 51 24 50	18 R 43	21 35	
28	2 ^m 48	11 47	21 22 25 22	16 16	20 53	

A Compendious Chronology of memorable Things since the Creation to this present Year.

A.P.J.	before Christ.		Years since.
710	4004	The Creation of the World	5796
1766	2948	Noah born	4740
2366	2348	Noah's Flood began	4140
2481	2233	The Babylonian Monarchy established	4025
2718	1996	Abraham born	3788
2986	1728	Joseph sold into Egypt	3520
3143	1571	Moses born	3363
3223	1491	The Israelites Departure out of Egypt	3283
3530	1184	Troy taken and destroyed by the Greeks	2976
3710	1004	Solomon's Temple built and dedicated	2795
4126	588	Jerusalem and the Temple destroyed	2380
4176	538	Daniel delivered from the Den of Lions	2330
4198	516	The Temple of Jerusalem rebuilt	2308
4391	323	The Death of Alexander the Great	2115
4710	4	The true Year of Christ's Birth	1796
4714	0	The vulgar Year of Christ's Birth	1792

A.D.		
33	The Passion and Resurrection of Jesus Christ	1759
70	Jerusalem and the Temple destroyed by Titus	1722
100	St. John, the last of the Apostles, dies Dec. 20.	1692
313	Christianity triumphs under Constantine	1479
476	Augustulus, the last Roman Emperor, deposed	1316
606	The wicked Phocas makes Pope Boniface Head of the Church	1186
608	Mahomet broaches his Imposture at Mecca	1184
872	Italy and Rome plundered by the Saracens	920
1012	Swain King of Denmark conquers England	780
1066	William Duke of Normandy conquers England	726
1110	Arts and Sciences taught in Cambridge	682
1119	The first War between the French and English	573
1300	The Mariners Compass invented	492
1339	The Canaries discovered by an English Ship	462
1380	Gunpowder and the Use of Guns first found out	412
1453	Constantinople taken from the Christians	339

A.D.

Years
since.

1463	The <i>Persians</i> conquered by <i>Tamerlane</i>	329
1500	<i>Rome</i> plundered by the Duke of <i>Bourbon</i>	292
1517	<i>Martin Luther</i> first disputed against Popery	274
1536	<i>England</i> separated from the Church of <i>Rome</i>	256
1588	The <i>Spanish Armada</i> defeated by the <i>English</i>	202
1603	Q. <i>Eliz.</i> dies <i>March 24</i> , and K. <i>James I.</i> began	189
1604	Died of the Plague in <i>London</i> , in 2 Years, 68,596	188
1605	Gunpowder Treason, <i>Nov. 5</i> .	187
1613	The New-River Water brought to <i>London</i>	179
1618	The excellent Sir <i>Walter Raleigh</i> beheaded	174
1625	K. <i>James I.</i> died, King <i>Charles I.</i> began, <i>Mar. 27</i> .	167
1625	35,417 Persons died of the Plague in <i>London</i>	167
1641	The cruel <i>Irish</i> Massacre began, <i>October 23</i> .	151
1643	<i>Burleigh-House</i> stormed by <i>Cromwel</i> , <i>July 24</i> .	149
1649	K. <i>Charles I.</i> beheaded, <i>January 30</i> .	143
1658	<i>Oliver Cromwell</i> died.	134
1660	K. <i>Charles II.</i> restored, <i>May 29</i> .	132
1665	68,586 Persons died of the Plague in <i>London</i>	127
1666	<i>London</i> burnt, and a great Sea-Fight with the <i>Dutch</i>	126
1672	War declared against the <i>Dutch</i> , <i>March 17</i> .	120
1674	A great Snow for 11 Days together	118
1675	The Town of <i>Northampton</i> burnt, <i>Sept. 3</i> .	117
1680	A great and splendid Comet appeared	112
1684	The great Frost that held 13 Weeks	108
1685	K. <i>Charles II.</i> died, <i>Feb. 6</i> . and K. <i>James II.</i> began	107
1685	The Duke of <i>Monmouth</i> beheaded, <i>July 15</i> .	107
1688	Seven Bishops sent to the Tower, <i>June 8</i> .	104
1688	K. <i>James II.</i> abdicated, <i>December 12</i> .	104
1689	K. <i>William</i> and Q. <i>Mary</i> crowned, <i>April 11</i> .	103
1692	The <i>French</i> Fleet entirely defeated by the <i>English</i>	100
1698	<i>Whitehall</i> Palace destroyed by Fire.	94
1702	K. <i>William</i> died, <i>March 8</i> , and Q. <i>Anne</i> began	90
1702	Q. <i>Anne</i> proclaimed War against <i>France</i> , <i>May 4</i> .	90
1703	A great and terrible Wind, <i>Nov. 26</i> and <i>27</i> .	89
1704	<i>Gibraltar</i> taken by the <i>English</i>	88
1707	<i>England</i> and <i>Scotland</i> united, <i>May 1</i> .	85
1710	Riots and great Disturbances in <i>England</i> .	82
1714	Q. <i>Anne</i> died <i>August 1</i> . and K. <i>George I.</i> began.	78

A.D.

Years
since.

1715	A Rebellion in <i>Scotland</i> and <i>Lancashire</i> suppressed	77
1716	A great Frost in the Beginning of this Year	76
1718	The <i>Spanish</i> Fleet destroyed by Admiral <i>Byng</i> .	74
1719	A surprizing Meteor seen, <i>March</i> 19, at 8 at Night	73
1719	<i>Mr. Flamsteed</i> , a celebrated Astronomer died <i>Dec.</i> 31.	73
1727	The incomparable Sir <i>Isaac Newton</i> , died <i>Mar.</i> 20.	65
1727	<i>K. George I.</i> died, <i>June</i> 11, and <i>K. George II.</i> began	65
1736	The Prince and Princess of <i>Wales</i> married, <i>Ap.</i> 27.	56
1739	Letters of Marque published in <i>London</i> against the <i>Spaniards</i> , <i>July</i> 16.	53
1739	War declared by <i>Great Britain</i> against <i>Spain</i> .	53
1739	<i>Porto-Bello</i> taken and destroyed by Admiral <i>Vernon</i> .	53
1740	A very severe Frost from <i>Dec.</i> 25, to <i>Feb.</i> 27.	52
1742	A Comet appeared from <i>Feb.</i> 18, to <i>March</i> 14.	50
1743	A splendid Comet appeared from <i>December</i> 23, to <i>February</i> 18, in <i>v</i>	49
1744	<i>March</i> 4, <i>France</i> declared War against <i>England</i> ; and <i>March</i> 31, <i>England</i> declared War against <i>France</i> .	48
1745	<i>Cape Breton</i> taken from the <i>French</i> , <i>June</i> 16.	47
1746	The <i>Scotch</i> Rebels defeated by the Duke of <i>Cum-</i> <i>berland</i> , at <i>Culloden</i> , near <i>Inverness</i> , <i>April</i> 16.	46
1748	A General Peace signed <i>October</i> 7.	44
1749	<i>Cape Breton</i> restored to the <i>French</i> .	43
1750	The <i>British</i> Fishery established.	42
1751	The Prince of <i>Wales</i> died <i>March</i> 20.	41
1752	The Date and Calendar altered.	40
1755	<i>Lisbon</i> destroyed by an Earthquake, <i>Nov.</i> 1.	37
1756	<i>England</i> declared War against <i>France</i> , <i>May</i> 18.	36
1756	The Island <i>Minorca</i> taken by the <i>French</i> , <i>June</i> 27.	36
1757	Count <i>Brown</i> defeated by the King of <i>Prussia</i> near <i>Prague</i> , <i>May</i> 6.	35
1757	The King of <i>Prussia</i> defeated by Count <i>Dawn</i> at <i>Collin</i> , <i>June</i> 18.	35
1758	The <i>French</i> defeat at <i>Creveld</i> by <i>P. Ferdinand</i> , <i>June</i> 23.	34
1758	Lord <i>Howe</i> slain, <i>July</i> 6, and Gen. <i>Abercrombie</i> repulsed at <i>Ticonderoga</i> , <i>July</i> 8.	34
1758	<i>Cape Breton</i> taken by the <i>English</i> , <i>July</i> 26.	34

A.D.

Years
since.

1758	The <i>Russians</i> defeated at <i>Zorndorff</i> by the King of <i>Prussia</i> , Sept. 25.	34
1759	The Island of <i>Guadalupe</i> taken by Gen. <i>Barrington</i> and Commodore <i>Moore</i> , May 1.	33
1759	The <i>French</i> defeat. at <i>Minden</i> by P. <i>Ferdinand</i> , Aug. 1.	33
1759	The King of <i>Prussia</i> defeated at <i>Cunersdorff</i> by the Count <i>de Soltikoff</i> , August 12.	33
1759	Gen. <i>Wolfe</i> slain, though victorious, Sept. 13, and <i>Quebec</i> taken Sept. 18, by Gen. <i>Townshend</i> .	33
1760	<i>Montreal</i> taken by Gen. <i>Amherst</i> , Sept. 8.	32
1760	K. <i>Geo. II.</i> died Oct. 25, and <i>Geo. III.</i> succeeded.	32
1761	<i>Pondicherry</i> taken by Col. <i>Coote</i> , Jan. 15.	31
1761	K. <i>George III.</i> married Q. <i>Charlotte</i> , Sept. 8.	31
1761	K. <i>George III.</i> crowned, Sept. 22.	31
1762	The Island of <i>Martinico</i> taken by Gen. <i>Monckton</i> and Adm. <i>Rodney</i> , Feb. 14.	30
1762	<i>George Prince of Wales</i> born, August 12.	30
1762	The <i>Havannah</i> taken by Lord <i>Albemarle</i> and Sir <i>George Pocock</i> , August 12.	30
1763	A general Peace in all <i>Europe</i> .	29
1763	Pr. <i>Frederick</i> , Bishop of <i>Osnaburgh</i> , born Aug. 16.	29
1765	Prince <i>William-Henry</i> born August 21.	27
1766	Princess <i>Charlotte-Augusta-Matilda</i> born Sept. 29.	26
1767	Prince <i>Edward</i> born Nov. 2.	25
1768	Princess <i>Augusta-Sophia</i> born Nov. 8.	24
1770	Princess <i>Elizabeth</i> born May 22.	22
1771	Prince <i>Ernest-Augustus</i> born June 5.	21
1772	<i>Swedes</i> resign their Liberties to the King.	20
1773	Prince <i>Augustus-Frederick</i> born Jan. 27.	19
1773	The <i>Light Gold</i> recoined.	19
1774	Prince <i>Adolphus-Frederick</i> born Feb. 24.	18
1775	War commenced against the <i>North-Americans</i> .	17
1776	Princess <i>Mary</i> born April 25.	16
1776	The <i>Americans</i> declare themselves independent.	16
1777	Princess <i>Sophia</i> born Nov. 3.	15
1778	The <i>French</i> sign a Treaty with the <i>Americans</i> .	14
1778	War begun against the <i>French</i> .	14
1779	War commenced against the <i>Spaniards</i> .	13
1780	War against the <i>Dutch</i> begun.	12
1783	A general Peace.	9
1783	Princess <i>Amelia</i> born	9

A.D.		Years since.
1783	New Volcanic Island appeared near <i>Iceland</i>	9
1783	More than 40,000 People perish by Earthquakes in <i>Italy</i>	9
1783	Peace with <i>France, Spain, and America</i> , concluded <i>Sept. 3.</i>	9
1784	A general Peace concluded, <i>July 2.</i>	8
1784	Seventeen Districts in <i>Iceland</i> desolated, by a sub- terraneous Fire	8
1786	Commercial Treaty with <i>France</i> signed <i>Sept. 26.</i>	6
1788	His Majesty <i>George III.</i> seized with a dangerous Disorder..	4
1789	<i>April 23</i> , the King, Royal Family, &c. went in State to <i>St Paul's</i> , being a Day of General Thanksgiving for His Majesty's Recovery	3
1789	Revolution in <i>France</i> , the <i>Bastile</i> demolished, and arbitrary Government destroyed.	3
1790	<i>Joseph II.</i> Emperor of <i>Germany</i> died <i>Feb. 20.</i>	2
1790	<i>Henry Frederick</i> , Duke of <i>Cumberland</i> , died <i>Sept.</i> <i>18.</i>	2

The Eclipses of Jupiter's

January				February				March				April			
Emergences				Immersion				Immersion				Immersion			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
1	13	39	59	2	10	0	26	1*	17	36	41	2*	14	18	20
3	8	7	33	4	4	28	39	3*	12	5	29	4*	8	47	23
5	2	35	6	5	22	56	54	5	6	34	19	6	3	16	28
6	21	2	40	7*	17	25	12	7	1	3	12	7	21	45	31
8*	15	30	16	9	11	53	33	8	19	32	7	9*	16	14	35
10	9	57	53	11	6	21	56	10*	14	1	2	11*	10	43	37
12	4	25	31	13	0	50	22	12	8	29	57	13	5	12	40
13	22	53	13	14	19	18	50	14	2	58	56	14	23	41	40
15*	17	20	55	16*	13	47	20	15	21	27	54	Emergences			
17	11	48	42	18	8	15	51	17*	15	56	55	16	20	19	2
19	6	16	30	20	2	44	24	19*	10	25	55	18*	14	48	0
21	0	44	20	21	21	13	1	21	4	54	57	20*	9	16	58
22	19	12	12	23*	15	41	42	22	23	23	58	22	3	45	55
24*	13	40	8	25	10	10	23	24	17	53	1	23	22	14	51
26	8	8	6	27	4	39	8	26*	12	22	3	25	16	43	45
28	2	36	6	28	23	7	53	28	6	51	7	27*	11	12	39
29	21	4	9					30	1	20	9	29.	5	41	36
31*	15	32	16					31	19	49	13				

May				June				July				August			
Emergences				Emergences				Emergences				Emergences			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
1	0	10	22	1	20	45	30	1	22	47	24	1	0	52	57
2	18	39	10	3	15	13	54	3	17	15	45	2	19	21	46
4*	13	7	59	5*	9	42	18	5	11	44	11	4	13	50	34
6	7	36	46	7	4	10	41	7	6	12	37	6	8	19	26
8	2	5	32	8	22	39	4	9	0	41	2	8	2	48	19
9	20	34	17	10	17	7	26	10	19	9	30	9	21	17	15
11	15	2	58	12*	11	35	46	12	13	38	1	11	15	46	13
13*	9	31	40	14	6	4	5	14	8	6	31	13	10	15	9
15	4	0	18	16	0	32	24	16	2	35	2	15	4	44	9
16	22	28	55	17	19	0	43	17	21	3	35	16	23	13	8
18	16	57	31	19	13	29	3	19	15	32	9	18	17	42	10
20*	11	26	5	21	7	57	22	21	10	0	43	20	12	11	14
22	5	54	7	23	2	25	41	23	4	29	22	22	6	40	19
24	0	23	9	24	20	54	1	24	22	58	1	24	1	9	22
25	18	51	39	26	15	22	20	26	17	26	42	25	19	38	29
27*	13	20	8	28*	9	50	41	28	11	55	25	27	14	7	56
29	7	48	37	30	4	19	4	30	6	24	11	29	8	36	45
31	2	17	5									31	3	5	54

First Satellite for 1792.

September				October	November	December			
Emerfions						Immerfions			
d.	h.	m.	s.			d.	h.	m.	s.
1	21	35	4			1	1	49	46
3	16	4	15			2	20	17	24
5	10	33	26	The Eclipses of Jupiter's Satellites will not be visible this Month, Jupiter being too near the Sun.	The Eclipses of Jupiter's Satellites will not be visible this Month, Jupiter being too near the Sun.	4	14	45	3
7	5	2	38			6	9	12	38
8	23	31	46			8	3	40	12
10	18	1	0			9	22	7	45
12	12	30	9			11	16	35	16
14	6	59	22			13	11	2	48
16	1	28	32			15	5	30	14
17	19	57	43			16	23	57	43
19	14	26	52			18*	18	25	9
21	8	56	3			20	12	52	36
23	3	25	12			22	7	20	2
24	21	54	23			24	1	47	30
26	16	23	30			25	20	14	58
28	10	52	38			27	14	42	25
30	5	21	44			29	9	9	52
						31	3	37	21

N. B. Those marked with an asterisk are visible at Greenwich.

To illustrate the Use of the preceding Table by an Example.
 Suppose on the 25th Day of December this Year, the Time of the Immersion of Jupiter's first Satellite be observed by a Telescope in an unknown Meridian, to happen at 22 h. 3 min. 18 seconds; I find by the Table, that the Time of this Immersion will happen at the British Observatory at 20 h. 14 min. 58 sec. the same Day: The Difference of the Times is 1 h. 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

Operation.	Immersion observed		22 ^h . 3 ^m . 18 ^s
	Immersion at Greenwich		20 14 58
	The Difference of Time		1 48 20
	Answering to		27° 5' 0"

Equation of Time to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add	Day
1	min	m	m	m	m	m	m	m	m	m	m	m	1
2	4	14	12	4	3	3	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	6	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	4	4	14	15	5	13
14	10	15	9	0	4	0	5	4	5	14	15	4	14
15	10	15	9	add	4	sub	6	4	5	14	15	4	15
16	10	14	9	0	4	0	6	4	6	15	15	4	16
17	11	14	8	1	4	1	6	4	6	15	15	3	17
18	11	14	8	1	4	1	6	3	6	15	14	3	18
19	11	14	8	1	4	1	6	3	7	15	14	2	19
20	11	14	7	1	4	1	6	3	7	15	14	2	20
21	12	14	7	2	4	1	6	3	7	15	14	1	21
22	12	14	7	2	4	2	6	2	8	16	13	1	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	sub	24
25	13	13	6	2	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	1	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	10	16	11	2	28
29	14		5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4		1		6	add		16		4	31

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

ECLIPSE:

Of the ECLIPSES for the Year 1792.

DURING the present year there will be but two eclipses, both of which will, be of the sun, and both invisible to the inhabitants of Great Britain, and will happen according to the following data.

On March 22, there will be an invisible eclipse of the sun; the opposition of the two luminaries will be at 50 minutes past 5 in the evening, the sun being then 2 deg. 49 1-half min. in γ , and the moon's lat. 3 1-half min. north. The sun will, however be centrally eclipsed on the meridian at 51 1-half min. past 5 in the evening, in 87 deg. 52 1-half min. west long. and lat. 4 1-fourth north.

The second will likewise be an invisible eclipse of the sun, on the 16th day of September, at 9 hours 18 min. in the morning, the sun being then 24 deg. 8 min. in μ ; and the moon's lat. 1 min. south, at which time the sun will be centrally eclipsed on the meridian, in 40 deg. 30 min. east long. and 1 3-fourths north lat.

To those who are in any measure conversant with globes or maps, the above data will be sufficient; to those who are not, any thing further upon the subject would be ungrateful. As to astrologic lore, we well know it is at this day out of date; however, to those who have the courage to adhere to the maxims of the ancients, in spite of all the scoffs and jeers of modern politeness; we shall say with the sages of old,

Nil nocet eclipsis illis regionibus in quibus non videtur.

This is the opinion delivered to posterity, by all the celebrated writers of antiquity; and, therefore, as they do not affect us, however primarily, and wishing to predict no harm to the human race, we will drop the subject, with only this observation to the tyros of the present day.

As it is evident that the shadow of any substance must exhibit the form of that from which it is derived, and as it is known to all, that in a lunar eclipse, the cause of her darkness, whether total or partial, is owing to the earth's shadow falling upon the body of the moon; so it is clear, from the shape of that shadow, that this earth which we inhabit, is of a globular form, and that none other but a globe could have cast a shade in that shape; and this is sufficient to prove the earth.

earth's rotundity to the meanest capacity, if never circumnavigator had, by experiment, convinced the world of the truth of it. Hence they who deny the globular form of the earth, and back their assertions with texts drawn from Holy Writ, such as, *He set the earth upon her foundations, so that it shall never move*, Psalm 104, v. 5. and again, *He hath founded it upon the seas, and established it upon the floods*, Psalm 24, v. 2. *cum multis aliis*, in order to disprove either the rotundity or mobility of this terrestrial globe, do much err; for neither the Psalmist, or any other of the Holy Writers, doth deny that it is a globe, and hath a motion; nor is there any thing in the above-mentioned quotations, further than to assure us, that the element of earth (alias land) shall never move out of the place which God has assigned to it, because its foundation is on the seas, and there it is established. Into this error ran the weaker and most superstitious sort of the ancient heathens, who thought it blasphemy against their divine goddess VESTA, to deny her the attribute of stability. Lactantius too, and other ancients, by denying the Antipodes, contradicted the true form of the earth; and here, as in all heresies, both ancient and modern, Holy Scripture was misinterpreted, to give a sanction to their assertions; but it behoves every wise man to consider, that the Holy Scribes, in the whole current of the Sacred Scripture, wrote to the vulgar capacities of every man, and consequently in the most plain and familiar dialect: and they who argue thus, might as well pretend, that the Deity is composed of bodily members, because the Scriptures declare, that *God seeth not as man seeth*, nor can any thing be hidden from the *eye* of the Almighty; *his arm is not shortened*; *the firmament declareth his handy works*, and *he maketh the clouds his footstool*. I believe they who read the seventh verse of the first chapter of the book of Job, might pay the devil the same compliment. For when the Lord had asked Satan, *Whence comest thou?* what answer did his black majesty, the grim monarch of hell make? it was thus: *From going to and fro in the earth, and from walking up and down in it*. Now as none was ever so foolish as to take this in a literal sense, why should any one be so stupid as to take the other so? I shall conclude, for the sake of those who are to succeed when my readers and I are both laid in the silent grave,

grave, with the following observation from the great St. AUGUSTINE, as quoted by *Galileus*; take it as follows:

“ If any one should object the authority of Sacred Writ,
“ against clear and manifold reason, he that doth so, knows
“ not what he undertakes, for he objects against the truth;
“ not the sense of the Scripture, which is beyond his com-
“ prehension; not what is in it, but finding it in himself,
“ what he fancied it to be.”

They that think I have dwelt too long upon this subject, would do well to reflect, that to combat error in whatever shape it appears, and to maintain truth, and demonstrate it, is the duty of all; and although it may be alledged, that nothing new has been offered upon the subject, I answer, that truth is fond of his old garb. One generation passeth away, and another cometh, but the fallacies of the senses still remain the same; and, consequently, a necessity of repeating to a new race what had, in years past, been delivered to their forefathers, still continues.

“ Like leaves on trees the race of man is found,
“ Now green in youth, now with’ring on the ground;
“ Another race the following spring supplies;
“ They fall successive, and successive rise:
“ So generations in their course decay,
“ So flourish these, when those are past away.”

Another hint may not be improper to be dropped in this place, and may not be unuseful to some of our readers.

When the astronomer tells you that this globe on which we breathe, negotiate, traverse by land and by sea, form governments, and do such amazing things as have been the subject of history for ages, is scarce a speck in the creation; that this ponderous and wonderful ball rests upon nothing, but is pendant, and hangs without any visible cause to support it from either above or beneath. That instead of being (as it appears) at rest, it is continually moving through immense regions of space, at the rate of more than a million of miles per day, until, in an allotted portion of time, he has made a circuit round the sun of five hundred millions of miles, and arrived at the goal from whence he started, measuring out to us one revolving year. That besides this, he has another motion round his own axis, at a rate not less than a thousand miles per hour,

hour, by which diurnal rotation, the blessings of day and night are communicated alternately, as every part is turned to or from the great fountain of light. When he tells the different appearances of the moon, as she takes her journey round the earth in the space of twenty-seven days, and about seven hours, making only one day and one night in her own orb in the same time, when he further informs us of the amazing magnitudes, distances, and exact times of the revolutions of other orbs moving round the sun as a common centre; let it not be looked upon as the wild romance of a roving fancy, but as an absolute fact, of which the prediction of eclipses for any time, or any part of the globe, is, beyond the least shadow of doubt, almost evident demonstration.

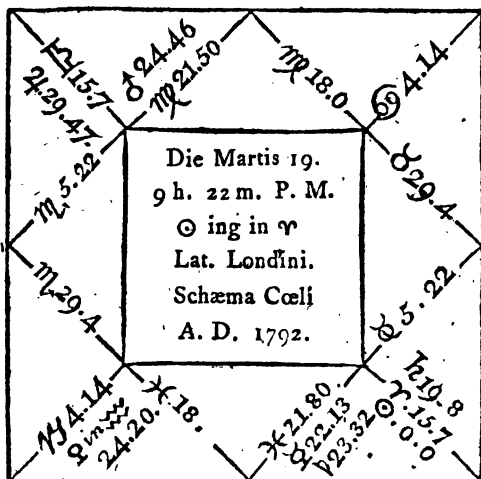
It has been right wisely observed, that if that part of human knowledge is the most excellent, which is conversant with those objects which are the most noble, there certainly can be no science more noble, more excellent, or more useful, or more admirably high and demonstrative of the infinite power and wisdom of the grand author of nature, than that of astronomy.

Thus we are told by the inspired writer, that the heavens declare his grandeur and glory, and the spacious firmament manifesteth his wonderful works, while day to day declare a God, and night to night hymn forth the creator; that the voice of the heavens is universal, familiar, and intelligible to every nation, tongue, and language through all the various regions of this sublunary world, dispensing wisdom to the foolish, and knowledge to him that lacketh understanding.

Much more might be said in praise of this divine art, would the limits of our present performance admit of it; and much remain to be said, even when logic and rhetoric had exhausted their united powers in its commendation. But we come now to that obsolete science, by some called the legitimate daughter of astronomy; by others a bastard, begot upon her by superstition, in the days of darkness, and the reign of ancient error; I mean astrology. However, not to quote the arguments which the learned Sir Christopher Heyden has wrote in its defence, we will give the opinion of that prodigy of a man in his day, viz. the great Cicero. *If (said he) there had been no truth in presages, the world could never have entertained a fixed belief thereof so long; for time eats out and devours fictions, but establishes the dictates of nature.* If any object that all things
come

come not to pass that are foretold, he answers, *If all sick people do not recover, is there therefore no virtue in medicine? The gods shew signs; and, if man mistakes them, it is not the divinity, but the false conjectures of frail man, which is to be blamed.* And another excellent author, in *Pseud. Epid. lib. 4. fol. 194.* has this modest remark, "*We do not reject nor condemn sober and regulated astrology; we hold that there is more truth in it than in the astrologer. We deny not the influence of the stars, we only suspect the application.* Conformable to this is the Italian adage, viz. *Astrology we know there is, but where is the astrologer?* and to acknowledge the truth, *ars vera est, sed pauci artifices reperiuntur.* Conscious of the difficulty of the task, the author, after giving the *schæma cæli veri* for the spring quarter, with some general hints, leaves every one to judge for themselves.

A scheme of the face of the heavens at the vernal equinox.



Si quid novisti rectius illis

Candidus imperti; si non, his utere mecum. Hor. lib. I. Epist.

The spring quarter this year takes place on March 19, at 22 minutes past 9 in the evening, when the bright god of day enters

enters once more on the first scruple of aries, at which time 18 deg. of π in on the *medium cali*; and 5 deg. 22 of η , ascend in the east. Moreover all the celestial wanderers, are *sub terra*, excepting δ , who is situated in π , and at this time retrograde; and ζ in ϵ , who is retrograde also; δ is hastening to an opposition with γ , and ζ to a trine with γ . The aspects of this quarter are various, and most of the malignant kind. In giving a judgment on the above let every one be very cautious; it is but their own judgment, and the position of the heavens, with the varying aspects of the circling year, like a crabbed text, may have many interpretations, according to the humours of the interpreters; but in this case it may be said in vindication of the art: *Non astrologia, sed astrologus fallat*. Damages and losses by land and by sea, by fires and inundations, devouring death, with his dire train of diseases, levels all distinctions: all this is constantly foretold, and as constantly happens. Why then should we expect the present year to be exempt? If nations are at peace, I am glad of it. If I apprehend otherwise, instead of shooting the bow of vengeance at random, I will advise peace and concord (the cement of society) at home. I have no reason to prognosticate any particular harm, more than in the common course of things to my native land, provided we behave ourselves as people worthy and sensible of the blessings they enjoy in the best of governments, and under the best of Kings. Is there a great work going on in the world? *it is the Lord's doing*; and, instead of presumptuously pointing at unwarranted particulars, humbly acknowledge,

- “ The ways of heav'n are dark and intricate;
- “ Puzzled in mazes, and perplex'd with errors;
- “ Our understanding traces them in vain.
- “ Lost and bewilder'd in the fruitless search;
- “ Nor sees with how much art the windings run,
- “ Nor where the regular confusion ends.”

(Con-

(CONTINUED FROM LAST YEAR.)

As to Jupiter's distance from the centre of the earth, the same is computed by Ricciolus, in its greatest distance to be removed from thence 47552 terrestrial semidiameters; in its mean distance 36500, and in its least 26441 of the said semidiameters.

Its apparent diameter, according to the said Ricciolus, being, when least, in Apogeo, $0' 38'' 18'''$, when mean, in its mean distance from the earth, $0' 49'' 46'''$, when greatest in his perigeum, $1' 08'' 46'''$.

Its true diameter contains of the earth's diameters 8 and 3-fourths. Its circumference $27\frac{63}{100}$ of the said diameters. The area of his greatest circle, 64 square diameters of the earth; its convex superficies 242 of the said square diameters; the solidity of its body contains that of the earth's 685 times.

As to the structure of its globe, we may conclude it with the rest of the planets, to be composed of solid and liquid parts; and by what hath been already said, that it is of a body, though physically round, full of uneven asperities, invested with a vapid atmosphere, carried about its own center, by a vertiginous motion, finished according to Rheita in eleven days, twenty hours, one minute, $15''$, and that its zones or belts are solid parts, less capable of light than the rest of its solid or liquid parts are.

S A T U R N,

The highest, and of all the primary planets (excepting that lately discovered by Herschel) runs his course above all the former, and beneath the fixed stars, as is collected from his parallax; nor are there any either of the fixed or errattick stars that afford, to the observing eye, by means of the telescope, such strange and admirable phenomena.

The chiefest and most worthy of note are three. First, that he appears girdled about with a certain fascia or zone, or rather encompassed about with an armilla, or ring of light.

Second, that he hath several lunulæ, or lesser planets, like the jovial satellites, moving about his body.

Third,

Third, That his figure appears variously and incredibly diversified, being sometimes beheld solitary in a round form, at other times represented with two rundles adhering to each side, which again alter their figure, and appear like certain ansæ, or handles.

As to the first phenomenon; the ingenious Monsieur Hugen in his *System. Saturn.* p. 46.) hath noted, that the said ring, about the body of Saturn, is every way alike distant from it, the plane whereof always keeps in a certain and constant inclination to the ecliptick, appearing (according to its diversity of spect) now like a large ellipsis, now like a more contracted one; at other times like a strait line, and now and then like two brachia or ansæ, as it were, on each side the body of the said planet. This hypothesis of his he laid down in the following proposition, by him published in the year 1666.

Annulo cingitur, tenui, plano, nusquam coherente, ad ellipticam inclinato. But Ricciolus conceives the said saturnian phenomena may be as well solved, if, instead of Monsieur Hugen's annulus, or ring, distant from the body of Saturn, there were an elliptical armilla, supposed coherent to at the extremities of the lesser diameter of the ellipsis, which hypothesis he delivers in this proposition.

Armilla cingitur tenui, plana Elliptica, duobus locis coherente; five Parallela Equatori; five in se circumvolubili, aut rotabili, versus Mundi Polos. But of this let the learned judge.

As to the second phenomenon; the fore-mentioned Monsieur Hugen, in the year 1655, on the 25th of March, discovered a small star, or planet, moving about the body of Saturn; which star Hevelius likewise observed at Dantzick; and Sir Isaac Neal, together with Sir Christopher Wren, here in England, about the same time; but took it not to be a planet, till informed of its being such by the information of the said Hugen.

This saturnian companion, after several months observation, been found to finish his periodical revolution in its orbit, about the body of Saturn, in the space of sixteen days.

ἈΤΛΑΣ ΟΥΡΑΝΙΟΣ,
The COELESTIAL ATLAS;

OR, A NEW

E P H E M E R I S

For the YEAR of our LORD 1792.

Being

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets,
the ECLIPSES of the Luminaries, and other remarkable PHÆNO-
MENA that will happen this Year.

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ASTRONOMICAL TABLES.

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Adapted to the

Meridian and Latitude of the Royal Observatory of
GREENWICH.

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in any Part of GREAT-BRITAIN or IRELAND; a TABLE, of the Sun's
and a very correct one of the Eclipses of JUPITER and SATURN;
a TABLE of the Sun's Right-Ascension; various TABLES of the
the most remarkable fixed Stars, corrected from the latest
Catalogue; and, lastly, a correct TABLE of the Latitudes and Longi-
tudes of the most remarkable Places in the World.

By ROBERT WHITE,

Teacher of the Mathematicks.

Οἱ ἀγαθοὶ διηγήσονται δοξάει Θεῷ.

The FORTY-THIRD IMPRESSION.

L O N D O N :

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[Price ONE SHILLING stitched.]

Chronological Notes for the Year 1792.

Golden Number	- - 7	Septuagesima Sund.	Feb. 5
Cycle of the Sun	- - 9	Shrove Sunday	Feb. 19
The Epact	- - 0	Easter Day	April 8
Dominical Letter	- AG	Whit Sunday	May 27
Number of Direction	- 19	Trinity Sunday	June 3
Roman Indiction	- - 10	Advent Sunday	Dec. 2

Astronomical CHARACTERS explained.

♈ Aries	♊ Cancer	♎ Libra	♏ Capricorn
♉ Taurus	♋ Leo	♍ Scorpio	♐ Aquarius
♊ Gemini	♌ Virgo	♏ Sagittary	♑ Pisces

♄ Saturn	☉ Sol (the Sun)	☾ Luna (the Moon)	♃ Herschel, the New or Georgian Planet.
♃ Jupiter	♀ Venus	♊ Moon's N. Node	
♂ Mars	☿ Mercury	♋ her S. Node	

♌ Conjunction when Planets are in the same Sign, Deg. Min. &c.

* Sextile when 2 Signs dist. | Δ Trine when 4 Signs dist.

☐ Quartile when 3 Signs dist. | ☊ Opposition when 6 Signs dist.

Of the Four Quarters of the YEAR 1792.

	d	h	m
THE Spring Quarter begins	March 19	9	22 aftern.
The Summer Quarter begins	June 20	7	19 aftern.
The Autumnal Quarter begins	Sept. 22	9	4 morn.
The Winter Quarter begins	Dec. 22	1	35 morn.

THE beautiful Planet VENUS will be a Morning Star 'till August the 6th; and after that Time she will be an Evening Star to the Year's End.

JUPITER will be a Morning Star 'till the 15th Day of April, then an Evening Star till the 3d of November, at which Time he becomes a Morning Star, and so continues to the Year's End.

The NAMES of the Learned JUDGES of the LAW.

- I. The Right Hon. Lord Thurlow, Lord High Chancellor. W.
 Right Honourable Sir Richard Pepper Arden, Knt. Master of the Rolls.
 II. In the } Right Hon. Lord Kenyon; L. C. J. Sir W. H. Ashurst, Knt.
 K. Bench. } Sir Francis Bullen, Bart. Sir Nath. Grosse, Knt.
 III. In the } R. H. Alex. Lord Loughborough, L. C. J. Sir Henry Gould, Knt.
 C. Pleas. } John Heath, Esq; Sir John Wilson, Knt.
 IV. In the } Sir James Eyre, Knt. L. C. B. Sir Beaumont Hotham, Knt.
 Exchequer } Sir Richard Perryn, Knt. Sir Alex. Thompson, Knt.
 Sir Alex. McDonald, Knt. Attor. General; Sir John Scott, Knt. Solic. Gen.

A TABLE of TERMS and Returns for the Year 1792.

Hilary Term begins Jan. 23, ends Feb. 13.

	Returns or Effoign-days.	Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary, - - -	Jan. 20	21	22	23	Monday.
In fifteen Days of St. Hilary, - - -	27	28	29	30	Monday.
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	3	4	5	6	Monday.
In eight Days of the Purif. of the Bl. V. M. -	9	10	11	12	Monday.

Easter Term begins April 25, ends May 21.

In fifteen Days of Easter - - -	April 22	23	24	25	Wednesday.
From Easter Day in three Weeks - - -	29	30	1	2	Wednesday.
From Easter Day in one Month - - -	May 6	7	8	9	Wednesday.
From Easter Day in five Weeks - - -	13	14	15	16	Wednesday.
On the Mor. of the Ascension of the Lord - -	18	19	20	21	Monday.

Trinity Term begins June 8, ends June 27.

On the Morrow of the Holy Trinity, - -	June 4	5	6	8	Friday.
In eight Days of the Holy Trinity, - -	10	11	12	13	Wednesday.
In fifteen Days of the Holy Trinity, - -	17	18	19	20	Wednesday.
From the Day of the Holy Trin. in 3 Weeks	24	25	26	27	Wednesday.

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls - - -	Nov. 3	4	5	6	Tuesday.
On the Morrow of St. Martin - - -	12	13	14	15	Thursday.
In eight Days of St. Martin - - -	18	19	20	21	Wednesday.
In fifteen Days of St. Martin - - -	25	26	27	28	Wednesday.

N. B. No Sittings in Westminster-Hall on the Second of February, Ascension-day, and Midsummer-day.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, The first and last Days of every Term, are the first and last Days of Appearance.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Prince Frederick, Aug. 16, 1763	Princess Mary, April 25, - 1774
Prince Wm. Henry, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Pr. Cha. Aug. Mat. Sept. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 2, 1768	Prs. Augusta of Brun, Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

SOVEREIGNS OF EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
France	Lewis XVI.	Aug. 23, 1754	May 10, 1774
Russia	Catherine II.	May 2, 1729	July 9, 1762
Spain	Charles IV.	Nov. 11, 1748	Dec. 1, 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Frederic IV.	Sept. 25, 1744	Aug. 17, 1786
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus III.	Jan. 24, 1746	Feb. 13, 1771
Germany	Leopold	May 5, 1747	Feb. 20, 1790
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 14, 1751
Papedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to pass of the Gold Coin.

GOLD.		Wt. allowed.	Full Wt.	SILVER.		Wt. allowed.	Full Wt.
		dwt. gr.	dwt. gr.			dwt. gr.	dwt. gr.
Guinea,	- -	5 8	5 9 ¹³ / ₁₆	A Crown,	- -	19	19 ¹³ / ₁₆
Half Guinea,	- -	2 16	2 16 ¹³ / ₁₆	Half Crown,	- -	9	9 ¹³ / ₁₆
Quarter Guinea,	1 8	1 8 ¹³ / ₁₆	1 8 ¹³ / ₁₆	Shilling,	- -	3	3 ¹³ / ₁₆
				Six Pence,	- -	1	1 ¹³ / ₁₆

According to the above proportions it appears, that the value of a *lb.* of Silver is 62s. or 31. 2s. and of a *lb.* of gold is 44½ guineas, or 46l. 14s. 5d. Also that the oz. of Silver is 5s. 2d. and the oz. of gold 3l. 17s. 10½d. So that the value of the standard gold is 15 times that of the silver, and 1-14th more.

A TABLE of the **KINGS** and **QUEENS** of **ENGLAND** since the **CONQUEST**.

Kings and Queens	Born A.D.	Began their Reign	Reigned Y. M. D.	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20 10 26 60	Burst by Leap.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12 10 24 43	Slain accidentally.	Winchester
Henry I.	1068	1100 Aug. 2	35 3 29 77		Reading
Stephen	1105	1135 Dec. 1	18 10 24 49		Faversham
Henry II.	1133	1154 Oct. 25	34 8 11 55		Fonteveraud
Richard I.	1156	1189 July 6	9 9 0 43	Slain with an Arrow.	Fonteveraud
John	1165	1199 April 6	17 6 13 50		Worcester
Henry III.	1207	1216 Oct. 19	56 0 28 65		Westminster
Edward I.	1239	1272 Nov. 16	34 7 21 67		Westminster
Edward II.	1284	1307 July 7	19 6 18 43		Gloucester
Edward III.	1312	1327 Jan. 25	50 4 27 65		Westminster
Richard II.	1366	1377 June 21	22 3 8 33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13 5 20 46		Canterbury
Henry V.	1389	1413 Mar. 20	9 5 11 33		Westminster
Henry VI.	1421	1422 Aug. 31	18 6 4 49	Dep. & murd.	Windfor
Edward IV.	1442	1461 Mar. 4	22 1 5 41		Windfor
Edward V.	1471	1483 April 9	0 2 15 12	Murder'd.	Not known
Richard III.	1443	1483 June 22	2 2 0 42	Slain in Battle.	Leicester
Henry VII.	1456	1485 Aug. 22	23 8 0 52		Westminster
Henry VIII.	1492	1509 April 22	37 9 6 55		Windfor
Edward VI.	1537	1547 Jan. 28	6 5 8 15		Westminster
Mary I.	1516	1553 July 6	5 4 11 42		Westminster
Elizabeth	1533	1558 Nov. 17	44 4 7 69		Westminster
James I.	1566	1603 Mar. 24	22 0 3 58		Westminster
Charles I.	1600	1625 Mar. 27	23 10 3 48		Windfor
Charles II.	1630	1649 Jan. 30	36 0 7 54		Westminster
James II.	1633	1685 Feb. 6	4 0 7 67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5 10 15 32		Westminster
William III.	1650	1689 Feb. 13	13 0 23 52		Westminster
Anne	1665	1702 Mar. 8	12 4 24 49		Westminster
George I.	1660	1714 Aug. 1	12 10 10 67		Hanover
George II.	1683	1727 June 11	33 4 14 77		Westminster
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.		

Above you view the Rise and Fall of Kings,
Whose Fate sometimes a useful Lesson brings.
Well if all Men could profit from the past!
Each know his Duty, each excel the last,
And justly execute his stated Task.

A. TABLE of the most Reverend, Right Reverend, and Reverend, the ARCHBISHOPS, BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1792.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
Dr. John Moore	Bangor	1775	Ewer deceased	
Arch-Bishop	Canterb. A. B.	1783	Cornwallis dec.	Dr. Buller
Dr. Will. Markham	Chester	1771	Keene translat.	
Arch-Bishop	York A. B.	1777	Drummond de.	Dr. J. Fountayne
Dr. Bailby Porteus	Chester	1776	Markham tran.	
	London	1787	Lowth decaas.	Bishop Pretymann
	Landaff	1769	Shipley translat.	
Ho. Dr. S. Barrington	Salisbury	1782	Hume dec.	
	Durham	1791	Thurlow dec.	Bishop Hinchliffe
	Litch & Cov.	1771	Egerton translat.	
Hon. Dr. B. North	Worcester	1774	Johnson decaas.	
	Winchester	1781	Thomas decaas.	Dr. Newton Ogle
Sir W. Ashburnham	Chichester	1744	Mawson translat.	Mr. Combe Miller
Dr. Charles Moss	St. David's	1766	Lowth translat.	
	Bath & Wells	1774	Willes decaas.	Ld. Fr. Seymour
Dr. John Douglas	Carlisle	1787	Law dec.	
	Salisbury	1791	Barrington tra.	Dr. John Ekins
Dr. John Hinchliffe	Peterborough	1769	Lamb dec.	Dr. C. M. Sutton
	St. David's	1774	Moss translat.	
H. Dr. James Yorke	Gloucester	1779	Warburton dec.	
	Ely	1781	Keene decaas.	Dr. W. Cooke
Dr. John Thomas	Rocheſter	1774	Pearce dec.	Dr. T. Dampier
Dr. Richard Hurd	Litch. & Cov.	1775	B. North tr.	
	Worcester	1781	B. North tr.	Ho. St. A. St. John
Dr. John Butler	Oxford	1777	Lowth translat.	
	Hereford	1788	Harley decaas.	Dr. N. Wetherall
Dr. John Ross	Exeter	1779	Keppel dec.	Dr. G. Harward
Dr. John Warren	St. David's	1779	Yorke, translat.	
	Bangor	1783	Moore translat.	Dr. Tho. Lloyd
Dr. J. Cornwallis	Litch. & Cov.	1781	Hurd translat.	Dr. Bapt. Proby
	Bristol	1782	Newton dec.	
Dr. Lewis Bagot	Norwich	1783	Yonge dec.	
	St. Asaph	1790	Hallifax dec.	Mr. W. D. Shipley
Dr. Richard Watſon	Landaff	1782	Barrington tr.	Dr. R. Price, Pr.
Dr. Edward Smalwell	St. David's	1783	Warren translat.	
	Oxford	1788	Butler translat.	Dr. Cyril Jackson
Dr. Chriſt. Wilſon	Bristol	1783	Bagot translat.	Dr. John Hallam
Dr. G. Pretymann	Lincoln	1787	Thurlow tran.	Sir R. Kaye, Bt.
Dr. William Cleaver	Cheſter	1788	Porteus tran.	Dr. G. Cotton
Dr. Samuel Horſley	St. David's	1788	Smalwell tr.	Mr. Wollaſton, P.
Dr. Richard Beadon	Glouceſter	1789	Hallifax tran.	Dr. Joſiah Tucker
Dr. George Horne	Norwich	1790	Bagot tran.	Dr. Joſeph Turner
Dr. E. V. Vernon	Carlisle	1792	Douglas translat.	Dr. Jeſſey Ekins
	Wexminster	1768		Bishop Thomas
Dr. Claudius Crigan	Sodor & Man	1784	Mason dec.	
	Windſor	1788		Bishop Cornwallis

In the course of this year there will happen only two eclipses, and those both of the sun, but none of the moon, and both will be invisible to the inhabitants of Great Britain; though the latter will be visible to France and both of them visible to the most southern parts of Europe, as well as to most parts of Asia and Africa. Other particulars of them, are as follow:

I. The first will happen on Thursday the 22d of March. The conjunction of the sun and moon is at 5h. 50m. in longitude $2^{\circ} 47\frac{1}{2}'$ of Υ , the moon's latitude being $3\frac{1}{2}'$ north. The sun will be centrally eclipsed on the meridian at 5h. 51m. in longitude $87^{\circ} 52\frac{1}{2}'$ west, and latitude $4^{\circ} 43'$ north. This eclipse will be central and annular at sun-rise in longitude 150° west, and latitude $24^{\circ} 20'$ south. The part of the penumbra will pass to the south of the Marquesas; to the north of the Gallapagos, about noon; in the parts south of New Spain, a little to the north of Porto-Bello and Carthagena; between Antiga and Nevis in the West Indies; and will finish at sun-set $4^{\circ} 20'$ north of the Cape Verd isles. The northern phases will be seen in the south parts of America, and the southern phases in Mexico, Louisiana, the United States of America, and Newfoundland. And a part of the eclipse will be seen before sun-set, on the coasts of Senegal, at the Cape Verd isles, the Canaries, and Agores. At Lisbon it begins at 6h. 5m.

II. The other eclipse happens on the 16th of September in the forenoon. The conjunction is at 9h. 18m. in the morning, in longitude $24^{\circ} 8'$ of Υ , the moon's latitude $1'$ south. This eclipse will be central and annular at sun-rise at the easternmost of the Cape Verdes: the line of the central eclipse will then enter Africa at the mouth of the river Senegal; thence crossing the middle of that quarter of the globe in a south-easterly direction and quitting the east side of it at the equator; thence across the Indian ocean, and terminating at sun-set in $18^{\circ} 25'$ south latitude, a little south of the island of Sumatra; and being centrally eclipsed on the meridian at 9h. 18m. in longitude $40^{\circ} 30'$ east, and latitude $2^{\circ} 45'$ north; a little before quitting Africa. The south phases of the eclipse will be seen in the southern parts of Europe and Asia, in the northern parts of Africa, and in the Indian isles. And the northern phases will be seen in the southern parts of Africa (except only near the point about the Cape of Good Hope) and Madagascar, &c.

Obliquity of the Ecliptic.		Equation of Equinoctial Point	
	For 1791.	For 1792.	
Jan. 1,	$23^{\circ} 27' 50''.2$	$23^{\circ} 27' 48''.7$	$+ 8''.3$
Apr. 1,	$23 \quad 27 \quad 49.8$	$23 \quad 27 \quad 48.5$	$+ 6.9$
July 1,	$23 \quad 27 \quad 49.4$	$23 \quad 27 \quad 48.4$	$+ 5.5$
Oct. 1,	$23 \quad 27 \quad 49.0$	$23 \quad 27 \quad 48.4$	$+ 4.1$
Dec. 31,	$23 \quad 27 \quad 48.7$	$23 \quad 27 \quad 48.3$	$+ 2.5$
			$- 3.6$

The LUNATIONS.

Full Moon the 9th day, at 4 minutes past 9 morning.
 Last quarter the 17th day, at 28 minutes past 2 morning.
 New Moon the 23d day, at 27 minutes past 5 afternoon.
 First quarter the 30th day, at 1 minute past 11 night.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ south	Clock bef. ☉
1	S. a. Ch. Circu.	8 5	3 55	23 8	5 12	morn.	6 18	4 2
2		8 4	3 56	22 56	8 30	1 4	7 3	4 30
3		8 4	3 56	22 50	12 2	2 7	7 48	4 58
4		8 3	3 57	22 44	14 47	3 9	8 33	5 26
5	Old Christ. Day	8 2	3 58	22 38	16 41	4 7	9 19	5 52
6	Epiphany	Tw. day	3 59	22 31	17 59	5 4	10 5	6 19
7		8 c	4 0	22 23	18 31	5 55	10 52	6 45
8	S. aft. Epiph.	Lucian	4 c	22 15	18 13	6 42	11 39	7 10
9	Plow Monday	7 59	4 1	22 7	17 7	☽ rises morn		7 35
10		7 58	4 2	21 58	15 14	5 46	0 26	8 0
11		7 57	4 3	21 49	12 39	6 49	1 23	8 24
12	O. N. Year's d.	7 56	4 4	21 39	9 29	7 52	1 59	8 47
13	Hil. Cam. T. b.	7 54	4 6	21 29	5 51	8 59	2 45	9 10
14	Oxf. Term beg.	7 53	4 7	21 19	1 55	10 6	3 31	9 32
15	S. af. Epiph.	7 52	4 8	21 8	2 12	11 16	4 17	9 53
16		7 51	4 9	20 57	6 17	morn.	5 4	10 14
17	Old Twe. Day	7 50	4 10	20 45	10 10	0 29	5 54	10 34
18	Q. Char. b. d. k.	Prisca	4 12	20 33	13 34	1 42	6 47	10 53
19		7 47	4 13	20 20	16 15	2 54	7 43	11 12
20	Fabian	7 46	4 14	20 8	17 56	4 5	8 40	11 30
21	Agnes	7 44	4 16	19 54	18 26	5 10	9 41	11 47
22	S. aft. Epiph.	Vince.	4 17	19 41	17 40	☽ sets	10 42	12 3
23	Hil. Term beg.	7 41	4 19	19 27	15 30	4 32	11 42	12 19
24		7 40	4 20	19 13	12 38	5 47	0 40	12 34
25	Con. of St. Paul	7 38	4 22	18 58	8 54	7 3	1 34	12 48
26		7 37	4 23	18 43	4 45	8 18	2 26	13 1
27	Pr. Aug. Fr. b.	7 35	4 25	18 28	0 31	9 29	3 15	13 13
28		7 34	4 26	18 12	3 37	10 38	4 2	13 25
29	Sun. of Epiph.	7 32	4 28	17 56	7 27	11 44	4 48	13 36
30	K. Cha. b. d. k.	7 31	4 29	17 40	10 52	morn.	5 34	13 46
31		7 29	4 31	17 23	13 45	0 50	6 20	13 55
Day	Length of Day.	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☿ sets.
1	0 8	7 50	18 24	18 28	2 53	15 23	16 08	0 m 20
7	0 16	8 0	18 37	19 6	26 9	5 28	20 44	11 55
13	0 28	8 12	18 49	19 33	28 46	23 7	28 19	12 30
19	0 44	8 28	19 20	20 4	29 23	29 14	24 38	12 5
25	0 58	8 44	19 52	20 27	31 4	30 21	25 20	10 40

1792.

January.

9

Day	Day lig. begins	Day lig. ends	Dur. twilig.	Pl. D's node	h's latitude	U's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	5 59	6 1	2 10	7 57	2 32	1 n 15	2 n 39	3 n 20	1 s 4
7	5 56	6 4	2 9	7 38	2 30	1 16	2 47	3 16	on R
13	5 52	6 8	2 7	7 19	2 28	1 1	2 55	3 7	2
19	5 46	6 14	2 5	7 0	2 27	1 19	3 3	2 54	3 2
25	5 39	6 21	2 3	6 41	2 25	1 20	3 11	2 38	3 2
Day	O's longitude		D's long.	D's latitude	h's long.	U's long.	♂'s long.	♀'s long.	♂'s long.
A 1	10 53	25	14 33	0 35	12 22	28 32	28 55	24 4	0 2
2	11 54	36	26 52	1 38	12 24	28 40	29 15	25 6	1 1
3	12 55	46	8 56	2 36	12 26	28 47	29 30	26 9	2 10
4	13 56	56	20 54	3 26	12 28	28 55	29 49	27 11	3 4
5	14 58	6	2 43	4 6	12 31	29 2	30 7	28 14	3 4
6	15 59	15	14 34	4 36	12 33	29 9	0 25	29 18	4 2
7	17 0	24	26 26	4 54	12 36	29 15	0 42	0 22	4 4
A 8	18 1	32	8 22	5 0	12 38	29 22	0 59	1 26	5
9	19 2	40	20 23	4 51	12 41	29 28	1 15	2 30	5 R
10	20 3	48	2 31	4 30	12 44	29 35	1 31	3 35	5
11	21 4	55	14 45	3 56	12 47	29 41	1 47	4 4	4 4
12	22 6	2	27 8	3 11	12 50	29 47	2 2	5 45	4 13
13	23 7	9	9 40	2 15	12 53	29 52	2 17	6 51	3 31
14	24 8	15	22 24	1 12	12 56	29 58	2 31	7 57	2 37
A 15	25 9	21	5 22	0 4	13 0	om 3	2 45	9 3	1 37
16	26 10	27	18 38	1 n 6	13 3	0 9	2 58	10 10	0 30
17	27 11	33	2 13	2 14	13 6	0 14	3 11	11 16	29 18
18	28 12	38	16 10	3 16	13 10	0 19	3 23	12 22	28 2
19	29 13	43	0 30	4 7	13 13	0 24	3 35	13 29	26 42
20	30 14	48	15 10	4 44	13 16	0 28	3 46	14 36	25 20
21	1 15	52	6 5	5 2	13 20	0 33	3 57	15 44	24 17
A 22	2 16	55	15 8	4 59	13 24	0 37	4 8	16 51	23 17
23	3 17	57	0 9	4 36	13 28	0 42	4 16	17 59	22 5
24	4 18	59	14 58	3 54	13 32	0 46	4 25	19 6	21 16
25	5 20	0	20 27	2 58	13 37	0 50	4 32	20 14	20 22
26	6 20	59	13 30	1 53	13 41	0 54	4 40	21 22	20 0
27	7 21	57	27 5	0 43	13 46	0 57	4 47	22 31	19 35
28	8 22	54	10 12	0 28	13 50	1 0	4 53	23 39	18 17
A 29	9 23	50	22 55	1 34	13 55	1 4	4 58	24 48	19 11
30	10 24	44	5 17	2 35	13 59	1 7	5 3	25 56	19 D 9
31	11 25	37	17 24	3 27	14 4	1 10	5 8	27 5	19 15
Days	U's rises	♂'s rises	♀'s rises	♂'s rises	h's declin.	U's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	1 m 4	10 a 53	4 m 2	9 m 17	2 n 34	9 s 48	2 n 54	15 s 35	21 s 16
7	1 27	10 37	4 10	8 44	2 41	10 2	2 17	17 4	18 53
13	1 4	10 19	4 18	8 11	2 49	10 14	1 46	18 24	17 24
19	0 42	10 0	4 26	7 22	2 58	10 24	1 22	19 34	17 31
25	0 19	9 40	4 35	6 12	3 0	10 32	1 7	20 24	18 39

The LUNATIONS.

Full Moon the 8th day, at 56 minutes past 2 morning.
 Left quarter the 15th day, at 51 minutes past 12 morning.
 New Moon the 22d day, at 4 minutes past 5 morning.
 First quarter the 29th day, at 24 minutes past 7 night.

M	Sunday & other D remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ south	Clock bef. ☉	
1		7 27	4 33	17 6	15 n 59	1 m 51	7 a 6	14 3	
2	Seaf. Candem.	7 25	4 35	16 49	17 30	2 46	7 53	14 10	
3	Blafe	7 24	4 36	16 31	18 17	3 41	8 40	14 17	
4	[Agatha]	7 22	4 38	16 13	18 16	4 39	9 27	14 22	
5	Septuaginta S.	7 20	4 40	15 55	17 26	5 14	10 15	14 27	
6		7 19	4 41	15 37	15 48	5 44	11 2	14 31	
7		7 17	4 43	15 18	13 26	6 27	11 49	14 34	
8		7 15	4 45	14 59	10 26	☽ rises	morn	14 37	
9		7 13	4 47	14 40	6 54	6 a 43	0 36	14 38	
10		7 11	4 49	14 21	3 0	7 52	1 23	14 39	
11		7 9	4 51	14 1	1 6	9 1	2 10	14 39	
12	Septuaginta S.	7 8	4 52	13 41	5 12	10 13	2 58	14 38	
13	T. ends OCa. D.	7 6	4 54	13 21	9 6	11 26	3 47	14 37	
14	Valentine	7 4	4 56	13 1	12 35	morn	4 39	14 35	
15		7 2	4 58	12 40	15 25	0 39	5 32	14 32	
16		7 0	5 0	12 20	17 22	1 48	6 28	14 28	
17		6 58	5 2	11 59	18 15	2 54	7 26	14 24	
18		6 56	5 4	11 38	17 57	3 54	8 25	14 19	
19	Quinq. Shro. S.	6 54	5 6	11 16	16 29	4 47	9 24	14 13	
20	Cam. T. div. m.	6 52	5 8	10 55	13 58	5 30	10 22	14 7	
21	Shrove Tuesday	6 51	5 9	10 33	10 35	6 7	11 17	14 0	
22	Wednesd.	6 49	5 11	10 11	6 39	☽ sets	0 a 11	13 52	
23	[A. F. L.]	6 47	5 13	9 50	2 25	7 a 5	1 2	13 44	
24	St. Matthias P.	6 45	5 15	9 27	1 n 49	8 17	1 51	13 35	
25		6 43	5 17	9 5	5 51	9 26	2 39	13 26	
26	St. John. in Lent	6 41	5 19	8 43	9 25	10 33	3 27	13 16	
27		6 39	5 21	8 20	12 37	11 38	4 14	13 5	
28		6 37	5 23	7 58	15 7	morn	5 1	12 54	
29	Enter Week	6 35	5 25	7 35	16 55	0 36	5 48	12 48	
Days	Day increas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	☽ sets
1	1 24	9 8	17 29	20 59	7 12	12 26	15 39	4 43	10 m 15
7	1 45	9 26	19 42	21 26	9 41	18 31	25 19	25 39	9 54
13	2 7	9 43	19 54	21 54	12 19	24 35	4 m 58	14 m 6	9 34
19	2 29	10 10	20 7	22 21	14 57	om 38	14 34	1 8	9 14
25	2 51	10 34	20 19	22 48	17 35	6 40	24 9	17 39	8 4

1792.

February.

24

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	5 30	6 30	2 0	6 18	2 24	1 22	3 30	2 16	2 17
7	5 21	6 39	1 59	5 59	2 22	1 23	3 28	1 55	1 9
13	5 12	6 48	1 58	5 40	2 21	1 24	3 35	1 33	0 6
19	5 0	7 0	1 57	5 21	2 20	1 26	3 41	1 10	0 47
25	4 50	7 10	1 56	5 2	2 19	1 27	3 45	0 48	1 28
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.	♀'s long.
1	12 26 28	29 8 21	4 10	14 9	1 13	5 12	28 14	19 29	19 29
2	13 27 17	11 11 13	4 41	14 14	1 16	5 17	29 23	19 47	19 47
3	14 28 5	23 4	5 0	14 19	1 18	5 21	0 33	20 13	20 13
4	15 28 32	4 58	5 6	14 24	1 20	5 24	1 42	20 47	20 47
A	16 29 37	16 58	4 59	14 30	1 22	5 25	2 44	21 23	21 23
6	17 30 21	29 6	4 39	14 35	1 24	5 23	4 1	22 4	22 4
7	18 31 3	11 24	4 5	14 40	1 25	5 18	5 11	22 50	22 50
8	19 31 44	23 53	3 19	14 45	1 26	5 16	6 21	23 38	23 38
9	20 32 23	6 32	2 23	14 51	1 27	5 13	7 31	24 30	24 30
10	21 33 1	19 23	1 18	14 56	1 28	5 10	8 41	25 27	25 27
11	22 33 38	2 25	0 9	15 2	1 29	5 6	9 51	26 20	26 20
A	23 34 14	15 39	1 3	15 7	1 30	5 2	11 2	27 27	27 27
13	24 34 48	29 6	2 12	15 13	1 30	4 58	12 12	28 31	28 31
14	25 35 21	12 46	3 15	15 18	1 31	4 52	13 22	29 37	29 37
15	26 35 53	26 41	4 8	15 24	1 31	4 45	14 33	0 45	0 45
16	27 36 24	10 49	4 46	15 30	1 31	4 37	15 43	1 56	1 56
17	28 36 53	25 10	5 8	15 36	1 30	4 28	16 54	3 9	3 9
18	29 37 21	9 40	5 10	15 42	1 30	4 19	18 4	4 23	4 23
A	30 37 48	24 15	4 52	15 48	1 29	4 9	19 15	5 30	5 30
20	1 38 13	8 49	4 15	15 54	1 28	3 58	20 26	6 54	6 54
21	2 38 37	23 15	3 23	16 1	1 27	3 46	21 37	8 12	8 12
22	3 38 59	7 27	2 18	16 7	1 25	3 34	22 48	9 34	9 34
23	4 39 19	21 19	1 7	16 14	1 24	3 21	23 59	10 56	10 56
24	5 39 38	4 49	0 7	16 20	1 22	3 7	25 11	12 19	12 19
25	6 39 55	17 57	1 18	16 27	1 20	2 53	26 22	13 43	13 43
A	7 40 10	0 42	2 23	16 33	1 18	2 38	27 33	15 9	15 9
27	8 40 22	13 8	3 20	16 40	1 15	2 22	28 44	16 36	16 36
28	9 40 32	25 19	4 7	16 46	1 13	2 5	29 55	18 4	18 4
29	10 40 40	7 19	4 42	16 53	1 10	1 47	30 6	19 31	19 31
Days	☽ rises	♂ rises	♀ rises	♂ rises	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	11 24 48	9 14	4 45	6 7	3 3	10 38	1 0	21 11	19 47
7	11 25 8	8 51	4 52	6 6	3 36	10 41	1 4	21 27	20 24
13	11 2 8	8 25	4 58	6 3	3 50	10 41	1 19	21 21	20 21
19	10 39 7	7 57	5 3	6 4	4 4	10 40	1 44	20 55	19 38
25	10 16 7	7 26	5 6	6 6	4 20	10 36	2 18	20 8	18 3

March hath xxxi Days.

White

The LUNATIONS.

Full Moon the 8th day, at 35 minutes past 6 afternoon.
 Last quarter the 15th day, at 4 minutes past 7 afternoon.
 New Moon the 22d day, at 50 minutes past 5 afternoon.
 First quarter the 30th day, at 36 minutes past 3 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	Drises & sets	☾ South	Clock bef. ☉
1	David	6 33	5 27	7 12	17 50	1 33	6 35	12 30
2	Chad	6 31	5 29	6 49	18 13	2 24	7 22	12 17
3		6 29	5 31	6 26	17 41	3 10	8 10	12 4
4	Sund. in Lent	6 2	5 33	6 3	16 20	3 52	8 58	12 50
5		6 25	5 35	5 40	14 14	4 29	9 45	11 35
6		6 23	5 37	5 17	11 28	5 0	10 33	11 21
7	Perpetua	6 21	5 39	4 53	8 6	5 30	11 21	11 6
8		6 19	5 41	4 30	4 17	Drises	morn	10 50
9		6 17	5 43	4 6	0 10	6 15	0 9	10 34
10		6 14	5 45	3 43	4 1	8 6	0 58	10 18
11	Sund. in Lent	6 13	5 47	3 19	8 4	9 19	1 48	10 2
12	Gregory	6 11	5 49	2 56	11 43	10 32	2 40	9 45
13		6 9	5 51	2 32	14 44	11 44	3 34	9 28
14		6 7	5 53	2 8	16 55	morn	4 29	9 11
15		6 5	5 55	1 45	18 3	0 53	5 26	8 54
16		6 3	5 57	1 21	18 4	1 54	6 24	8 36
17	St. Patrick	6 1	5 59	0 57	16 56	2 44	7 22	8 18
18	or Mid. Sund.	5 59	6 1	0 34	14 47	3 34	8 19	8 0
19	[Ed. K. W. S.]	5 57	6 3	0 10	11 46	4 12	9 14	7 42
20		5 55	6 5	0 14	8 6	4 45	10 7	7 24
21	Benedict	5 53	6 7	0 37	4 2	5 15	10 58	7 6
22		5 51	6 9	1 1	0 10	Drises	11 47	6 47
23		5 49	6 11	1 25	4 17	7 14	0 37	6 29
24	[Lady Day]	5 47	6 13	1 48	8 6	8 22	1 24	6 10
25	S. in L. Ann. or	5 45	6 15	2 12	11 27	9 28	2 12	5 52
26		5 43	6 17	2 35	14 14	10 31	3 0	5 33
27		5 41	6 19	2 59	16 19	11 30	3 48	5 15
28		5 39	6 21	3 22	17 39	morn	4 35	4 57
29		5 37	6 23	3 45	18 11	0 25	5 22	4 38
30	Cam. T. ends	5 36	6 24	4 9	17 55	1 11	6 10	4 19
31	Oxf. T. ends	5 34	6 26	4 32	16 52	1 54	6 58	4 1
Day	Day	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂
1	3 11	10 55	20 3	23 11	19 47	11 41	2 17	11 32
7	3 35	11 19	20 45	23 38	22 26	17 41	11 39	19 1
13	3 59	11 43	20 51	24 6	25 5	23 39	21 10	8 11
19	4 23	12 7	21 8	24 33	27 45	29 37	0 40	0 10
25	4 47	12 31	21 20	25 0	0 26	5 13	10 9	26 9

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	4's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	4 43	7 17	1 55	4 16	2 19	1 28	3 47	0 29	1 53
7	4 30	7 30	1 56	4 27	2 18	1 29	3 46	0 7	2 10
13	4 17	7 43	1 57	4 8	2 17	1 30	3 47	0 14	2 12
19	4 4	7 56	1 58	3 40	2 17	1 31	3 35	0 32	1 58
25	3 50	8 10	2 0	3 30	2 16	1 32	3 25	0 49	1 25
Days	☉'s longitude		D's long.	D's latitude	h's long.	4's long.	δ's long.	♀'s long.	♂'s long.
1	11 40	46	19 11 12	5 5	16 59	1 8	1 29	2 18	2 1 3
2	12 40	50	19 5	5 14	17 6	1 5	1 19	2 10	2 1 33
3	13 40	51	13 0	5 11	17 13	1 2	0 51	4 41	24 7
4	14 40	50	25 2	4 53	17 20	0 59	0 31	5 52	25 40
5	15 40	47	7 16	4 22	17 26	0 55	0 11	7 4	27 14
6	16 40	42	19 42	3 38	17 33	0 52	29 51	8 16	28 51
7	17 40	35	2 24	2 43	17 39	0 48	29 30	9 28	29 29
8	18 40	26	15 21	1 38	17 46	0 44	29 9	10 40	2 6
9	19 40	15	28 33	0 27	17 53	0 40	28 47	11 51	3 49
10	20 40	2	12 0	0 47	18 0	0 35	28 20	13 3	5 28
11	21 39	47	25 39	2 0	18 7	0 31	28 2	14 15	7 10
12	22 39	30	9 30	3 7	18 15	0 27	27 39	15 27	8 53
13	23 39	12	23 29	4 3	18 22	0 23	27 16	16 39	10 37
14	24 38	52	7 35	4 45	18 29	0 17	26 53	17 51	12 22
15	25 38	30	21 45	5 10	18 36	0 12	26 29	19 3	14 9
16	26 38	7	5 58	5 17	18 43	0 7	26 5	20 15	15 57
17	27 37	42	20 11	5 4	18 50	0 1	25 41	21 28	17 45
18	28 37	15	4 21	4 32	18 58	29 56	25 18	22 40	19 36
19	29 36	46	18 25	3 45	19 5	29 50	24 55	23 52	21 29
20	30 36	16	2 21	2 44	19 13	29 44	24 32	25 4	23 28
21	1 35	44	16 5	1 35	19 20	29 38	24 6	26 17	25 15
22	2 35	10	29 35	0 21	19 28	29 32	23 46	27 29	27 12
23	3 34	34	12 50	0 52	19 35	29 26	23 23	28 42	29 0
24	4 33	56	25 47	2 1	19 43	29 20	23 0	29 9	30 7
25	5 33	16	8 27	3 2	19 50	29 14	22 3	30 12	3 6
26	6 32	33	20 52	3 54	19 58	29 7	22 18	31 12	5 6
27	7 31	48	3 11	4 34	20 5	29 1	21 51	3 31	7 7
28	8 31	1	15 4	5 120	13 28	54	21 33	4 43	9 9
29	9 30	11	26 59	5 15	20 20	28 47	21 12	5 58	11 18
30	10 29	19	8 51	5 15	20 28	28 0	20 52	7 8	13 19
31	11 28	24	20 47	5 2	20 35	28 33	20 23	8 20	15 20
Days	4's rises	δ's rises	♀'s rises	♂'s rises	h's declin.	4's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	9 54	6 59	5 m 6	6 m 5	4 32	10 31	2 52	19 12	16 17
7	9 30	6 25	5 4	6 3	4 49	10 23	3 39	17 47	13 21
13	9 6	5 52	5 0	6 1	5 5	10 12	4 29	16 4	9 38
19	8 42	5 16	4 55	5 56	5 22	10 0	5 19	14 5	5 11
25	8 16	4 42	4 50	5 50	5 39	9 47	6 4	11 52	0 4

The LUNATIONS.

Full Moon the 7th day, at 22 minutes past 7 morning.
 Last quarter the 14th day, at 16 minutes past 1 morning.
 New Moon the 21st day, at 36 minutes past 7 morning.
 First quarter the 28th day, at 2 minutes past 10 morning.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☿'s declin.	☿ rises & sets	☿ South	Clock beg. ☉	
1	6 or Palm Sun.	5 32	6 28	4 n 55	15 n 4	2 m 38	7 45	3 47	
2		5 30	6 30	5 18	12 33	3 6	8 32	3 44	
3	Richard	5 28	6 32	5 41	9 25	3 37	9 19	3 6	
4	St. Ambrose	5 26	6 34	6 4	5 46	4 5	10 7	2 48	
5	Maundy Thurs.	O.L.D	6 36	6 26	1 44	4 21	10 56	2 30	
6	Good Friday	5 22	6 38	6 49	2 29	4 58	11 46	2 13	
7		5 20	6 40	7 11	6 41	(rises morn		1 55	
8	Easter Day	5 18	6 42	7 34	10 35	8 24	0 39	1 38	
9	Easter Monday	5 16	6 44	7 56	13 56	9 34	1 33	1 21	
10	Easter Tuesday	5 14	6 46	8 18	16 26	10 51	2 30	1 5	
11		5 12	6 48	8 40	17 53	11 56	3 28	0 48	
12		5 10	6 50	9 2	18 11	morn	4 27	0 32	
13		5 8	6 52	9 24	17 20	0 53	5 26	0 17	
14		5 6	6 54	9 45	15 24	1 43	6 23	0 1	
15	Low Sunday	5 5	6 55	10 6	12 36	2 23	7 18	0 17	
16		5 3	6 57	10 28	9 8	2 56	8 10	0 28	
17		5 1	6 59	10 49	5 14	3 26	9 1	0 42	
18	Ox. & Ca. T. beg.	4 59	7 1	11 9	1 7	3 53	9 50	0 56	
19	Alphege	4 57	7 3	11 30	2 n 59	4 19	10 38	1 9	
20		4 55	7 5	11 51	6 52	4 47	11 25	1 22	
21		4 53	7 7	12 11	10 24	(sets	0 a 12	1 34	
22	St. I. st. Easter	4 51	7 9	12 31	13 23	8 25	1 0	1 46	
23	St. George	4 50	7 10	12 51	15 45	9 25	1 47	1 58	
24	[M. h.]	4 48	7 12	13 10	17 21	10 22	2 35	2 9	
25	St. Mark. Fm.	err. h.	7 14	13 30	18 11	11 13	3 23	2 19	
26		4 44	7 16	13 49	18 11	11 58	4 10	2 29	
27		4 42	7 18	14 8	17 25	morn	4 57	2 39	
28		4 4	7 20	14 27	15 52	0 37	5 44	2 48	
29	St. I. st. Easter	4 39	7 21	14 45	13 37	1 12	6 31	2 56	
30		4 37	7 23	15 4	10 44	1 43	7 17	3 5	
Day	Day increaf.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	h sets
1	5 15	12 59	21 35	25 32	3 34	12 27	21 12	2 8 59	7 2 7
7	5 39	13 23	21 47	25 59	6 17	18 21	0 41	9 11 34	6 49
13	6 1	13 45	21 59	26 27	9 0	24 13	10 10	16 25 59	6 31
19	6 23	14 7	22 12	26 54	11 44	om 5	19 39	20 51 41	6 23
25	6 45	14 29	22 24	27 21	14 29	5 55	29 9	18 12 45	5 56

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	3 33	8 27	2 3	3 8	2 16	1 32	3 10	1 6	0 23
2	3 17	8 43	2 8	2 49	2 16	1 33	2 56	1 18	0 43
3	3 2	8 58	2 11	2 30	2 16	1 33	2 40	1 27	1 47
4	2 47	9 13	2 15	2 11	2 16	1 32	2 24	1 34	2 32
5	2 26	9 34	2 25	1 51	2 16	1 32	2 8	1 38	2 45
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.	
1	12 27 28	2 54 49	4 36	20 42	28 26	20 14	9 33	17 24	
2	13 26 29	15 3	3 57	20 49	28 19	19 56	10 45	19 29	
3	14 25 27	27 33	3 6	20 57	28 12	19 39	11 58	21 33	
4	15 24 24	10 22	2 5	21 4	28 5	19 22	13 10	23 36	
5	16 23 18	23 31	0 55	21 12	27 57	19 6	14 23	25 38	
6	17 22 10	7 1	0 20	21 18	27 50	18 50	15 35	27 40	
7	18 21 0	20 50	1 35	21 27	27 42	18 34	16 48	29 41	
8	19 19 47	4 57	2 45	21 34	27 35	18 19	18 1	31 39	
9	20 18 32	19 17	3 47	21 42	27 27	18 5	19 13	3 35	
10	21 17 16	3 44	4 34	21 49	27 20	17 52	20 26	5 29	
11	22 15 59	18 12	5 4	21 57	27 12	17 40	21 39	7 20	
12	23 14 40	2 38	5 15	22 4	27 5	17 29	22 51	9 7	
13	24 13 20	16 56	5 6	22 12	26 57	17 19	24 4	10 51	
14	25 11 58	1 4	4 39	22 20	26 50	17 9	25 17	12 32	
15	26 10 34	15 0	3 56	22 27	26 42	17 0	26 29	14 19	
16	27 9 9	28 43	2 59	22 35	26 34	16 52	27 42	15 40	
17	28 7 42	12 14	1 54	22 42	26 27	16 45	28 55	17 8	
18	29 6 13	25 31	0 43	22 50	26 19	16 38	0 7	18 31	
19	30 4 43	8 37	0 29	22 58	26 11	16 32	1 20	19 45	
20	1 3 11	21 29	1 38	23 5	26 4	16 27	2 33	21 3	
21	2 1 37	4 10	2 41	23 13	25 56	16 23	3 46	22 13	
22	3 0 1	16 38	3 35	23 20	25 48	16 19	4 58	23 16	
23	3 58 23	28 56	4 18	23 28	25 41	16 16	6 11	24 16	
24	4 56 43	11 11	4 49	23 35	25 33	16 14	7 24	25 9	
25	5 55 2	23 2	5 7	23 43	25 25	16 13	8 37	25 57	
26	6 53 18	4 56	5 11	23 51	25 18	16 13	9 50	26 40	
27	7 51 33	16 48	5 2	23 58	25 10	16 13	11 3	27 17	
28	8 49 45	28 42	4 40	24 6	25 3	16 14	12 15	27 50	
29	9 47 56	10 42	4 6	24 13	24 56	16 16	13 28	28 10	
30	10 46 4	22 54	3 20	24 21	24 48	16 19	14 41	28 35	
Days	☽ rises	☽ sets	♀ rises	♀ sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	7 24 47	5 22	4 42	6 56	6 n c	9 s 30	6 n 48	9 s 1	6 n 20
2	7 21	4 50	4 35	7 46	6 11	9 13	7 13	6 25	12
3	6 54	4 31	4 27	8 35	6 33	8 57	7 28	3 42	16 4
4	6 27	4 6	4 18	9 0	6 50	8 41	7 32	0 55	20
5	6 0	3 42	4 7	9 24	7 7	8 25	7 24	1 n 55	21 5

The LUNATIONS.

Full Moon the 6th day, at 16 minutes past 5 afternoon.

Last quarter the 13th day, at 44 minutes past 7 morning.

New Moon the 20th day, at 59 minutes past 9 night.

First quarter the 29th day, at 43 minutes past 1 morning.

M	Sundays & other	☉	☉	☉'s	☽'s	☽ rises	☽	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
1	St. Phil. and J.	4 35	7 25	15 n 22	7 a 19	2 m 12	8 a 3	3 12
2		4 34	7 26	15 39	3 28	2 38	8 51	3 19
3	Inven. of Cross	4 32	7 28	15 57	0 41	3 5	9 40	3 26
4		4 30	7 30	16 14	4 55	3 32	10 31	3 32
5		4 28	7 32	16 31	9 2	4 0	11 24	3 37
6	4 Sun. af. E. d.	4 27	7 33	16 48	12 43	(rises	morn	3 42
7	[J. Ev. a. P. L.	4 25	7 35	17 4	15 39	8 a 38	0 21	3 46
8		4 23	7 37	17 21	17 36	9 48	1 20	3 50
9		4 22	7 38	17 37	18 20	10 51	2 20	3 53
10		4 20	7 40	17 52	17 49	11 43	3 21	3 56
11		4 19	7 41	18 7	16 9	morn	4 20	3 57
12	Old May Day	4 17	7 43	18 22	13 29	0 27	5 17	3 59
13	or Rogat. Su.	4 16	7 44	18 37	10 6	1 4	6 11	4 0
14		4 14	7 46	18 51	6 16	1 34	7 2	4 0
15		4 13	7 47	19 5	2 12	2 1	7 51	3 59
16		4 11	7 49	19 19	1 n 54	2 28	8 38	3 58
17	Ascen. H. Thu.	4 10	7 50	19 33	5 50	2 55	9 25	3 56
18		4 8	7 52	19 46	9 28	3 20	10 11	3 54
19	Q. Charlott. b.	Dunst.	7 53	19 58	12 36	3 48	10 57	3 51
20	Sun. af. Ascen.	4 6	7 54	20 11	15 10	(sets	11 44	3 48
21	Easter T. ends	4 4	7 56	20 23	17 1	8 a 16	0 a 31	3 44
22	Mrs. Elizabe. b.	4 3	7 57	20 34	18 7	9 9	1 19	3 40
23		4 2	7 58	20 46	18 24	9 57	2 7	3 35
24	Oxf. Term e.	4 0	8 0	20 57	17 52	10 38	2 54	3 30
25		3 59	8 1	21 7	16 34	11 14	3 40	3 24
26	August. C. T. di.	3 58	8 2	21 18	14 33	11 47	4 26	3 17
27	Whit Sunday	Ven. B.	8 3	21 28	11 54	morn	5 11	3 10
28	Whit Monday		8 4	21 37	8 42	0 14	5 56	3 3
29	W. Tu. K. Cha.	3 55	8 5	21 46	5 3	0 40	6 42	2 55
30	Em. W. [2. 20.	3 54	8 6	21 55	1 5	1 5	7 29	2 47
31		3 53	8 7	22 3	3 8	1 22	8 17	2 39
Days	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H
	increas.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	rises
1	7 7	14 51	22 38	27 48	17 15	11 44	8 39	12 7
7	7 27	15 11	22 51	28 16	20 2	17 32	10 21	4 m 17
13	7 45	15 29	23 3	28 43	23 51	23 19	27 42	3 55
19	8 4	15 47	23 16	29 11	25 41	29 6	7 15	3 33
25	8 19	16 3	23 29	29 38	28 32	4 4	16 46	3 11
								2 49

M D	Day begins	Day ends	Durat. twilig.	Pl. D's node	h's latitude	M's latitude	♂'s latitude	♀'s latitude	♂'s latitude
1	2 6	9 57	2 37	12 32	2 10	1 31	1 53	1 30	2 20
7	1 44	10 19	2 45	1 13	2 17	1 30	1 38	1 37	1 13
13	1 19	10 45	3 5	0 54	2 17	1 21	1 25	1 33	0 24
19	0 48	11 20	3 32	0 35	2 18	1 21	1 12	1 27	2 6
25	All day light.			0 16	2 19	1 27	1 0	1 19	3 20
M D	☉'s longitude		D's long.	D's latitude	h's long.	M's long.	♂'s long.	♀'s long.	♂'s long.
1	8 11	44 10	5 12	2 24	24 29	24 41	16 12	15 54	28 55
2	12 42	14 18	1 11	1 19	24 36	24 34	16 26	17 29	5
3	13 40	16 12	1 24	0 8	24 44	24 27	16 31	18 20	10
4	14 38	16 15	2 15	1 6	24 51	24 20	16 36	19 33	11
5	15 36	15 27	7 7	2 17	24 58	24 14	16 42	20 46	10
6	16 34	12 28	13 14	3 22	25 6	24 7	16 49	21 59	0
7	17 32	7 28	18 18	4 15	25 13	24 1	16 56	23 12	28
8	18 30	1 13	2 12	4 51	25 20	23 55	17 4	24 28	26
9	19 27	54 28	7 7	5 7	25 27	23 48	17 13	25 37	28
10	20 25	45 12	5 54	5 31	25 34	23 42	17 22	26 50	27
11	21 23	35 27	27 27	4 39	25 41	23 36	17 32	28 3	27
12	22 21	24 11	43 43	3 58	25 48	23 30	17 42	29 16	26
13	23 19	12 25	36 36	3 4	25 55	23 24	17 53	30 8	26
14	24 16	59 9	11 11	2 1	26 2	23 18	18 5	41 25	31
15	25 14	45 22	26 22	0 51	26 9	23 13	18 17	2 54	24
16	26 12	30 5	20 5	0 8	26 16	23 7	18 30	4 7	24
17	27 10	14 18	12 12	1 25	26 23	23 2	18 43	5 20	23
18	28 7	57 0	45 45	2 27	26 30	22 57	18 57	6 33	23
19	29 5	39 13	9 9	3 21	26 37	22 52	19 11	7 46	22
20	30 3	19 15	24 15	4 5	26 44	22 47	19 26	8 59	22
21	1 0	58 7	11 7	4 37	26 51	22 42	19 42	10 12	21
22	1 58	36 19	32 19	4 57	26 57	22 38	19 58	11 25	21
23	2 56	13 12	28 12	5 3	27 4	22 33	20 14	12 38	21
24	3 53	49 13	20 13	4 57	27 10	22 29	20 31	13 51	20
25	4 51	23 25	11 25	4 37	27 17	22 25	20 48	15 4	20
26	5 48	56 7	4 7	4 6	27 23	22 21	21 6	16 17	20
27	6 46	27 19	3 19	3 23	27 30	22 17	21 24	17 30	20
28	7 43	57 1	13 1	2 31	27 36	22 14	21 43	18 43	20
29	8 41	25 13	38 13	1 30	27 43	22 10	22 2	19 57	20
30	9 38	52 26	23 26	0 24	27 49	22 6	22 22	21 10	20
31	10 36	18 9	32 9	0 46	27 56	22 3	22 42	22 23	20
M D	☉'s sets	♂'s sets	♀'s rises	♂'s sets	h's declin.	M's declin.	♂'s declin.	♀'s declin.	♂'s declin.
24	m 19	3 m 17	3 m 59	9 2 14	7 2 25	8 1 10	7 2 7	4 2 44	2 2 13
23	54	2 53	3 46	8 37	7 39	7 56	6 40	7 31	1 5
13	29	2 31	3 36	7 56	7 54	7 43	6 10	10 12	18
19	5	2 9	3 27	7 11	8 8	7 32	5 24	12 45	16
25	43	1 45	3 17	6 23	8 22	7 24	4 44	15 7	14

The LUNATIONS.

Full Moon the 5th day, at 7 minutes before 1 morning.

Last quarter the 11th day, at 34 minutes past 3 afternoon.

New Moon the 19th day, at 43 minutes past 12 noon

First quarter the 27th day, at 17 minutes past 2 afternoon.

M D	Sundays & other remark. days.	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock aft. ☉	
1	Nicomede	3 52	8 8	22 11	7 13	1 57	9 8	2 30	
2	Trinity Sunday	3 51	8 9	22 19	11 7	2 26	10 2	2 20	
3	K. Geo. 3 ber	3 50	8 10	22 26	14 27	3 2	11 0	2 11	
4	Pr. Er. Aug. 1	3 49	8 11	22 33	16 56	3 43	morn	2 1	
5	Donif.	3 48	8 11	22 40	18 16	☾ rises	0 0	1 51	
6	Oxford 1. beg.	3 47	8 12	22 46	18 17	9 32	1 2	1 40	
7	Corpus Christ.	3 48	8 13	22 51	17 1	10 20	2 4	1 29	
8	Term begins	3 47	8 13	22 57	14 37	11 1	3 4	1 18	
9	1 S. aft. Trin.	3 46	8 14	23 1	11 21	11 36	4 1	1 6	
10	St. Barnabas	3 45	8 14	23 6	7 31	morn	4 55	0 54	
11		3 45	8 15	23 10	3 24	0 4	5 45	0 42	
12		3 45	8 15	23 14	0 46	0 29	6 33	0 30	
13		3 44	8 16	23 17	4 47	0 55	7 20	0 18	
14		3 44	8 16	23 20	8 31	1 21	8 6	0 5	
15		3 44	8 16	23 22	11 48	1 48	8 52	obef. 8	
16	2 S. aft. Trin.	3 43	8 17	23 24	14 32	2 18	9 38	0 21	
17	S. Alb.	3 43	8 17	23 26	16 56	2 50	10 25	0 33	
18		3 43	8 17	23 27	17 56	3 25	11 12	0 46	
19		3 43	8 17	23 28	18 28	☾ sets	11 59	1 0	
20	Tra. Ed. KWS	3 43	8 17	23 28	18 11	8 33	0 46	1 13	
21	Longest day	3 43	8 17	23 28	17 7	9 12	1 33	1 26	
22		3 43	8 17	23 27	15 18	9 45	2 19	1 3	
23	3 S. aft. Trin.	3 43	8 17	23 27	12 51	10 14	3 4	1 52	
24	Midf.	3 43	8 17	23 25	9 49	10 40	3 43	2 5	
25	1 Nat. J. Pao.	3 43	8 17	23 23	6 20	11 7	4 33	2 17	
26		3 44	8 16	23 21	2 31	11 31	5 18	2 30	
27	Trin. T. ends	3 44	8 16	23 19	1 20	11 57	6 4	2 42	
28		3 44	8 16	23 16	5 34	morn	6 52	2 54	
29	St. Peter	3 45	8 15	23 12	9 29	0 21	7 43	3 6	
30		3 45	8 15	23 9	13 1	0 52	8 35	3 18	
M D	Day increas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	☾ rises
1	8 37	16 7	23 43	0 11	11 53	11 34	27 59	13 57	am 21
7	8 42	16 26	23 56	0 38	4 47	17 18	7 35	1 38	1 58
13	8 46	16 37	24 9	1 5	7 43	23 2	17 11	22 39	1 31
19	8 50	16 34	24 21	1 32	10 40	28 45	26 49	17 24	1 11
25	8 52	16 33	24 34	2 0	13 39	45 29	5 12	28 27	0 47

1792.

June.

19

M	Day lig.	Daylig.	Durat.	Pl, (h's	u's	δ's	♀'s	♂'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1				29 ^m 54	2 20	1 25	0 48	1 6	3 56
7				29 35	2 21	1 23	0 37	0 54	3 47
13	All	day	light	29 16	2 22	1 22	0 28	0 41	3 9
19				28 57	2 23	1 20	0 19	0 27	2 11
25				28 38	2 24	1 18	0 11	0 13	1 1
M	☉'s	D's	D's	h's	u's	δ's	♀'s	♂'s	
D	longitude	long.	latitude	long.	long.	long.	long.	long.	
1	11 1 33 43	23 10	1 56	28 2	22 2	13 22	23 8 36	21 8 8	
2	12 31 7	7 17	3 0	28 28	21 57	23 23 24	49 21	26	
G	13 28 29	21 52	3 56	28 15	21 5	23 44 26	2 21	53	
4	14 25 50	6 49	4 36	28 21	21 52	24 5 27	15 22	28	
5	15 23 11	22 0	4 58	28 27	21 50	24 27 28	29 23	5	
6	16 20 31	7 15	4 59	28 33	21 48	24 49 29	42 23	44	
7	17 17 50	22 22	4 39	28 38	21 46	25 12 0 11	55 24	27	
8	18 15 9	7 12	4 0	28 44	21 44	25 35 2	8 25	15	
9	19 12 28	21 40	3 7	28 50	21 43	25 58 3	21 20	7	
G	20 9 46	5 41	2 4	28 55	21 41	26 22 4	35 27	1	
11	21 7 4	19 17	0 55	29 1	21 40	26 46 5	48 27	59	
12	22 4 21	2 28	0 14	29 7	21 39	27 10 7	1 29	2	
13	23 1 38	15 20	1 21	29 12	21 38	27 35 8	14 0 11	9	
14	23 58 55	27 54	2 23	29 18	21 37	28 0 9	27 1	19	
15	24 56 12	10 8 16	3 16	29 23	21 37	28 25 10	41 2	32	
16	25 53 29	22 28	4 0	29 28	21 36	28 51 11	54 13	48	
G	26 50 45	4 32	4 32	29 34	21 36	29 17 13	7 5	8	
18	27 48 1	16 31	4 52	29 39	21 36	29 43 14	20 6	31	
19	28 45 17	28 26	4 59	29 44	21 37	0 9 15	34 7	58	
20	29 42 32	10 21 8	4 53	29 49	21 37	0 36 16	47 9	28	
21	30 0 39	47 22 10	4 35	29 54	21 38	1 3 18	0 11	1	
22	1 37 2	4 2	4 4	29 59	21 39	1 30 19	14 12	37	
23	2 34 16	15 57	3 23	0 8	21 40	1 58 20	27 14	16	
G	3 31 30	27 58	2 31	0 8	21 41	2 26 21	40 15	58	
25	4 28 43	10 2 8	1 33	0 13	21 42	2 54 22	54 17	45	
26	5 25 55	22 32	0 29	0 18	21 44	3 23 24	7 7	34	
27	6 23 7	5 15	0 22	0 22	21 45	3 52 25	21 21	25	
28	7 20 19	18 20	1 45	0 27	21 47	4 21 26	34 23	19	
29	8 17 30	1 52	2 49	0 31	21 49	4 50 27	48 25	15	
30	9 14 41	15 53	3 45	0 36	21 51	5 19 29	1 27	14	
M	u's	δ's	♀'s	♂'s	h's	u's	δ's	♀'s	♂'s
D	fers	fers	rites	rites	declin.	declin.	declin.	declin.	declin.
1	1 1 18	3 m 8	3 m 20	8 11 37	7 16	3 30	17 11 37	14 15	15
7	46	0 56	3 2	3 4 8	49	7 12	2 29 19	29 15	14
13	1 27	0 35	2 58	2 51 9	0	7 11	1 23 21	2 17	8
19	56	0 13	2 55	2 45 9	10	7 12	0 14 22	14 19	31
25	21	1 2 48	2 56	2 41 0	10	7 15	0 59 23	4 13	53

B 2

The LUNATIONS.

Full Moon the 4th day, at 27 minutes past 7 morning.

Last quarter the 12th day, at 46 minutes past 1 morning.

New Moon the 19th day, at 41 minutes past 3 morning.

First quarter the 26th day, at 58 minutes past 11 night.

M	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	D's declin.	D rises & sets	D South	Clock bef. ☉
1	4 S. aft. Trin.	3 46	8 14	23 n 5	15 a 53	1 m 29	9 a 36	3 29
2	Visit. of B.V.M.	3 46	8 14	23 0	17 46	a 14	10 36	3 40
3	Cam. Com.	D. d. b	8 13	22 55	18 27	3 6	11 39	3 51
4	Trans. St. Mar.	3 48	8 12	22 50	17 47	D rises	morn	4 2
5	Old Midsum.	3 48	8 12	22 44	15 51	8 a 50	0 41	4 12
6	Camb. Ter. ends	3 49	8 11	22 38	12 52	9 28	1 42	4 22
7	Thos. a Becket	3 50	8 10	22 31	9 7	10 1	2 38	4 31
8	5 S. aft. Trin	3 50	8 10	22 24	4 58	10 29	3 32	4 40
9	Oxford Act	3 51	8 9	22 17	0 41	10 56	4 23	4 49
10		3 52	8 8	22 9	3 n 30	11 23	5 12	4 57
11		3 53	8 7	22 1	7 23	11 49	5 59	5 5
12		3 54	8 6	21 53	10 51	morn	6 45	5 13
13		3 55	8 5	21 44	13 46	0 16	7 31	5 20
14	Oxf. T. ends	3 56	8 4	21 34	16 1	0 48	8 17	5 26
15	6 S. aft. Trin	Swith.	8 3	21 25	17 34	1 22	9 4	5 32
16		3 58	8 2	21 15	18 20	2 3	9 51	5 38
17		4 0	8 0	21 5	18 18	2 50	10 39	5 43
18		4 1	7 59	20 54	17 28	3 40	11 26	5 48
19		4 2	7 58	20 43	15 53	D sets	0 a 12	5 52
20	Margaret	4 3	7 57	20 32	13 36	8 a 14	0 58	5 56
21		4 5	7 55	20 20	10 43	8 43	1 44	5 59
22	7. 3. aft. Trin.	4 6	7 54	20 8	7 21	9 9	2 29	6 1
23	[Magdalen]	4 7	7 53	19 55	3 39	9 34	3 23	6 3
24		4 9	7 51	19 43	0 17	9 57	3 58	6 4
25	St. James	4 10	7 50	19 30	4 16	10 22	4 44	6 4
26	3. Anne	4 11	7 49	19 16	8 9	10 52	5 38	6 4
27		4 13	7 47	19 3	11 45	11 24	6 25	6 4
28		4 14	7 46	18 49	14 47	morn	7 20	6 2
29	8 S. aft. Trin.	4 16	7 44	18 34	17 1	0 3	8 17	6 0
30		4 17	7 43	18 20	18 13	0 50	9 27	5 58
31		4 18	7 41	18 5	18 10	1 44	10 19	5 55
M	Day	Length	Helioe.	Helioe.	Helioe.	Helioe.	Helioe.	...
D	decreas.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ♂
1	0 4	16 30	24 47	27 16	10 12	16 11	21 8	27 3
7	0 12	16 22	24 59	2 55	19 43	15 55	25 50	28 11
13	0 24	16 10	25 12	3 22	22 47	21 38	5 32	40 44
19	0 32	15 56	25 25	3 50	25 53	27 22	15 15	5 12
25	0 54	15 40	25 38	4 18	29 1	3 3	24 59	10 1

M D.	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1				28m 19	2 25	1 17	0 3	0 2	0 10
7	All	day-	light	27 59	2 27	1 15	0 4	0 16	1 7
13				27 40	2 28	1 14	0 10	0 30	1 41
19				27 21	2 30	1 12	0 17	0 43	1 48
25	0 45	11 7	3 20	27 2	2 31	1 11	0 23	0 55	1 32
M D.	δ's longitude	D's long.	h's latitude	u's long.	δ's long.	♀'s long.	♂'s long.	♀'s long.	♂'s long.
G	29 10	11 52	0 22	4 28	0 40	2 15	5 48	0 25	29 11
2	11 9	2 15	4 55	0 44	2 15	6 18	1 28	1 28	19 19
3	12 6	12 0	5 1	0 48	2 15	6 48	2 42	3 24	
4	13 3	22 15	4 46	0 52	2 2	7 18	3 55	5 31	
5	14 0	32 1	4 11	0 56	2 5	7 48	5 9	7 39	
6	14 57	43 16	3 19	1 0	2 8	8 19	6 22	9 47	
7	15 54	54 0	2 14	1 3	2 11	8 50	7 36	11 56	
8	16 52	6 14	1 3	1 7	2 15	9 21	8 49	14 5	
9	17 49	18 28	0 9	1 10	2 18	9 52	10 3	16 14	
10	18 46	30 11	1 19	1 14	2 22	10 24	11 17	18 24	
11	19 43	43 24	2 22	1 17	2 26	10 56	12 30	20 33	
12	20 40	57 7	3 17	1 21	2 30	11 28	13 44	22 41	
13	21 38	12 19	4 2	1 24	2 35	12 0	14 58	24 48	
14	22 35	27 1	4 35	1 27	2 39	12 32	16 18	26 54	
15	23 32	43 13	4 56	1 30	2 44	13 4	17 25	28 59	
16	24 30	0 25	5 3	1 33	2 49	13 37	18 39	30 1	
17	25 27	17 7	4 58	1 36	2 54	14 10	19 53	3 2	
18	26 24	35 19	4 39	1 39	2 59	14 43	21 7	5 3	
19	27 21	54 1	4 9	1 41	3 4	15 16	22 21	7 2	
20	28 19	3 13	3 27	1 44	2 10	15 50	23 35	8 59	
21	29 16	33 25	2 36	1 46	2 15	16 24	24 49	10 53	
G	29 13	53 7	1 37	1 48	2 21	16 58	26 3	12 48	
23	1 11	14 19	0 32	1 50	2 27	17 32	27 17	14 41	
24	2 8	35 2	0 35	1 52	2 33	18 6	28 31	16 31	
25	3 5	56 14	1 42	1 54	2 40	18 40	29 45	18 19	
26	4 3	28 27	2 45	1 55	2 46	19 14	30 59	20 7	
27	5 0	40 11	3 41	1 57	2 53	19 48	32 13	21 52	
28	5 58	3 25	4 26	1 59	2 59	20 23	33 26	23 35	
G	6 55	26 9	4 56	2 1	3 6	20 58	34 40	25 15	
30	7 52	50 24	5 8	2 24	3 12	21 33	35 54	26 55	
31	8 50	15 9	4 59	2 26	3 19	22 8	36 28	28 35	
M D.	δ's declin.	♀'s declin.	♂'s declin.	δ's declin.	♀'s declin.	♂'s declin.	δ's declin.	♀'s declin.	♂'s declin.
1	1 58	2 27	3 0	7 32	9 27	7 21	2 15	23 30	23 37
7	1 35	1 7	3 7	8 4	9 34	7 29	3 34	23 31	24 3
13	1 10	10 48	3 18	8 28	9 39	7 39	4 55	23 7	24 51
19	10 51	20 28	3 31	8 37	9 44	7 52	6 27	23 19	20 16
25	10 29	10 9	3 47	8 38	9 47	8 6	7 40	21 7	16 49

The LUNATIONS.

Full Moon the 2d day, at 11 minutes past 2 afternoon.
 Last quarter the 9th day, at 55 minutes past 2 afternoon.
 New Moon the 17th day, at 41 minutes past 6 afternoon.
 First quarter the 25th day, at 26 minutes past 7 morning.
 Full Moon the 31st day, at 29 minutes past 10 night.

M	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉	
1	Lammas Day	4 25	7 40	17 49	16 51	2m 53	11 20	5 51	
2		4 22	7 38	17 34	14 21	☽ rises	morn	5 47	
3		4 24	7 36	17 18	10 54	7 57	0 19	5 42	
4		4 25	7 35	17 2	6 51	8 28	1 16	5 36	
5		4 27	7 33	16 46	2 30	8 57	2 10	5 30	
6	Transfiguration	4 28	7 32	16 29	1 51	9 26	3 2	5 25	
7	Pr. Amalia b.	4 30	7 30	16 12	5 58	9 53	3 52	5 16	
8	[Nat. of Jc.]	4 32	7 28	15 55	9 39	10 20	4 40	5 8	
9		4 34	7 26	15 37	12 48	10 51	5 27	5 0	
10	St. Laurence	4 35	7 25	15 20	15 17	11 24	6 14	5 1	
11	Pr. Brun. b.	Dogd. e.	7 23	15 2	17 4	morn	7 1	4 41	
12	10 S. aft. Tri	P. W. b.	O. Lam	14 44	18 4	0 2	7 48	4 31	
13		4 41	7 19	14 25	18 17	0 46	8 36	4 21	
14		4 42	7 18	14 7	17 41	1 35	9 24	4 10	
15	Assumption	4 44	7 16	13 48	16 19	2 30	10 11	3 58	
16		4 46	7 14	13 29	14 15	3 28	10 58	3 46	
17	D. York. b.	4 48	7 12	13 10	11 32	☽ sets	11 44	3 33	
18		4 50	7 10	12 50	8 17	7 16	0 29	3 20	
19	11 S. af. Trin	4 51	7 9	12 30	4 38	7 41	1 14	3 7	
20		4 53	7 7	12 10	0 45	8 6	2 0	2 52	
21		4 55	7 5	11 50	3 14	8 31	2 47	2 38	
22	D. Clarence b.	4 57	7 3	11 30	7 9	9 0	3 35	2 23	
23		4 59	7 1	11 10	10 46	9 30	4 25	2 7	
24		5 1	6 59	10 49	13 54	10 5	5 17	2 52	
25	St. Bartholomew	5 2	6 58	10 28	16 20	10 49	6 12	1 35	
26		5 4	6 56	10 7	17 49	11 41	7 10	1 18	
27	12 S. af. Trin	5 6	6 54	9 46	18 14	morn	8 9	1 1	
28	St. Augustine	5 8	6 52	9 25	17 26	0 41	9 9	0 44	
29		5 10	6 50	9 3	15 28	1 51	10 8	0 26	
30		5 12	6 48	8 42	12 28	3 5	11 5	0 8	
31		5 14	6 46	8 20	8 42	4 24	morn	0 11	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	☽ rises
D	decreas.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ♂	
1	1 11	15 21	25 52	4m 49	2m 43	9 48	6 22	25 50	10 18
7	1 31	15 3	26 5	5 17	5 56	15 33	16 7	14m 16	9 55
12	1 51	14 43	26 18	5 44	9 10	11 18	25 51	1 18	9 33
19	2 13	14 21	26 30	6 11	12 26	17 5	5m 38	17 48	9 11
25	2 35	12 50	26 43	6 39	15 45	2 52	15 43	4 22	8 25

1792.

August.

23

M D	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. C' node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂' latitude
1	1 23	10 34	2 58	26m240	2 33	1 n 5	0 29	1 n 6	0 n 52
7	1 47	10 13	2 46	26 21	2 35	1 7	0 34	1 14	0 5
13	2 9	9 51	2 34	26 2	2 36	1 6	0 39	1 20	0 s 50
19	2 29	9 31	2 25	25 43	2 38	1 5	0 44	1 24	1 49
25	2 47	9 13	2 18	25 24	2 39	1 4	0 48	1 25	2 48

M D	☉'s longitude	☽'s long.	☽'s latitude	h's long.	u's long.	♂'s long.	♀'s long.	♂'s long.	
1	♏ 9 47 40	24v519	4 n 29	2 8 5	24-26	22-43	8♏22	0m12	
2	10 45 6	9m28	3 41	2 6	24 33	23 19	9 36	1 48	
3	11 42 33	24 27	2 38	2 7	24 41	23 55	10 50	3 22	
4	12 40 1	9x8	1 25	2 8	24 48	24 31	12 4	4 53	
G	13 37 31	23 24	0 8	2 9	24 56	25 7	13 19	6 22	
6	14 35 2	7v12	1 s 6	2 10	25 4	25 43	14 33	7 52	
7	15 32 34	20 34	2 15	2 11	25 12	26 20	15 47	9 19	
8	16 30 7	3 830	3 14	2 11	25 20	26 56	17 1	10 44	
9	17 27 42	16 5	4 3	2 12	25 28	27 33	18 15	12 6	
10	18 25 19	28 22	4 39	2 12	25 36	28 9	19 29	13 29	
11	19 22 57	10 1127	5 1	2 13	25 44	28 46	20 44	14 50	
G	20 20 37	22 24	5 11	2 13	25 53	29 23	21 58	16 8	
13	21 18 18	4 16	5 7	2R	13 26	1 om	23 12	17 24	
24	22 16 1	16 7	4 50	2 13	26 10	0 37	24 26	18 39	
15	23 13 45	28 0	4 21	2 13	26 19	1 15	25 41	19 51	
16	24 11 31	9 58	3 39	2 12	26 28	1 52	26 55	21 1	
17	25 9 19	22 2	2 48	1 12	26 37	2 30	28 9	22 8	
18	26 7 8	4m14	1 48	2 11	26 46	3 8	29 24	23 14	
G	27 4 58	16 35	0 43	2 11	26 55	3 46	0m38	24 18	
20	28 2 49	29 6	0 n 26	2 10	27 4	4 24	1 52	25 19	
21	29 0 42	11-50	1 34	2 10	27 14	5 2	3 7	26 17	
22	29 58 36	24 47	2 30	2 9	27 23	5 41	4 21	27 13	
23	m 0 56 31	8m 0	3 37	2 8	27 33	6 19	5 35	28 6	
24	1 54 28	21 31	4 25	2 7	27 43	6 57	6 50	28 55	
25	2 50 26	5 20	4 58	2 5	27 53	7 36	8 4	29 42	
G	3 50 25	19 27	5 14	2 4	28 3	8 15	9 18	0-26	
27	4 48 25	3v51	5 11	2 2	28 13	8 54	10 32	1 5	
28	5 46 26	18 29	4 48	2 1	28 23	9 33	11 47	1 39	
29	6 44 29	3m15	4 6	1 59	28 34	10 12	13 1	2 10	
30	7 42 33	18 3	3 7	1 58	28 44	10 51	14 15	2 37	
31	8 40 39	2x45	1 56	1 56	28 55	11 30	15 30	2 59	
M D	☽ sets	♂ sets	♀ sets	♂ sets	h's declin.	u's declin.	♂'s declin.	♀'s declin.	♂'s declin.
1	10 2 2	9 2 50	7 2 44	7 2 34	9 n 49	8 23	9 18	19 n 15	12 n 13
7	9 41	9 33	7 38	7 36	9 49	8 42	10 42	17 18	8 10
13	9 29	9 26	7 32	7 39	9 49	9 2	12 6	15 3	4 13
19	8 59	9 0	7 25	7 33	9 46	9 23	13 28	12 34	0 36
25	8 39	8 45	7 15	7 24	9 43	9 44	14 49	9 52	2 27

The LUNATIONS.

Last quarter the 8th day, at 9 minutes past 7 morning.

New Moon the 16th day, at 18 minutes past 9 morning.

First quarter the 23d day, at 48 minutes past 1 afternoon.

Full Moon the 30th day, at 6 minutes past 9 morning.

Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
Giles 13 S. aft. Trin.	5 11 Lon. b	6 44 6 42	7 58 7 36	4 27 0 3	☽ rises 7 23 30	om 0 0 34	0 30 0 49	
	5 20	6 40	7 14	4 15	7 58	1 46	1 8	
	5 27	6 38	6 52	8 12	8 26	2 36	1 28	
	5 28	6 37	6 29	11 37	8 57	3 25	1 48	
	5 28	6 35	6 7	14 25	9 30	4 14	2 8	
Enurhus 7 Nativ. of V. M.	5 27	6 33	5 44	16 28	10 8	5 2	2 28	
14 S. aft. Trin.	5 26	6 31	5 22	17 44	10 51	5 51	2 49	
	5 31	6 29	4 59	18 12	11 38	6 39	3 9	
	5 33	6 27	4 36	17 5	morn	7 26	3 30	
	5 35	6 45	4 13	16 46	0 30	8 14	3 50	
	5 37	6 23	3 50	14 55	1 26	9 0	4 11	
	5 39	6 21	3 27	12 23	2 26	9 47	4 32	
	5 41	6 19	3 4	9 18	3 28	10 33	4 53	
☉ eclipsed inv.	5 42	6 17	2 41	5 44	4 33	11 19	5 14	
15 S. aft. Trin.	5 45	6 15	2 18	1 52	☽ sets	0 2 5	5 35	
Lambert	5 47	6 13	1 55	2 8 9	6 24 44	0 52	5 56	
	5 49	6 11	1 31	6 9	7 12	1 41	6 16	
Imber Week	5 51	6 9	1 8	9 54	7 42	2 31	6 37	
	5 53	6 7	0 45	13 12	8 16	3 23	6 58	
St. Matt.	5 55	6 5	0 21	15 48	8 57	4 17	7 19	
K Geo. 3 Cro.	5 57	6 3	0 2	17 31	9 44	5 13	7 40	
16 S. aft. Trin.	5 59	6 1	0 26	18 12	10 42	6 11	8 0	
	6 1	5 59	0 49	17 45	11 45	7 9	8 21	
Holy Crofs	6 3	5 57	1 23	16 10	morn	8 7	8 41	
St. Cyprian	6 4	5 56	1 36	13 35	9 57	9 3	9 1	
	6 6	5 54	1 59	10 10	2 11	9 58	9 21	
	6 8	5 52	2 23	6 9	3 28	10 31	9 41	
St. Micha. Pra.	Rorib	5 50	2 46	1 50	4 43	11 42	10 0	
17 S. aft. Trin.	St. Jer.	5 48	3 10	2 23 30	5 59	morn	10 19	
Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☽ rites
3 13 33	26 55	7 11	19 11	39	9 30	26 11	44	25 52 1
3 25 13	27 11	7 38	23 2	15 28	5 26	15 28	1	8 0
3 49 12	27 23	8 6	26 2	21 19	16 8	8 32	7	38
4 11 12	27 36	8 33	29 54	27 11	25 47	6 12	7	16
4 35 11	27 49	9 1	3 23	3 4	5 25	9 8	9	6 55

1792.

September.

25

M	Day	lig.	Day	lig.	Durat.	Pl.	D's	h's	u's	g's	q's	g's
D	begins	ends.	twilig.	node	latitude	latitude	latitude	latitude	latitude	latitude	latitude	latitude
1	3	7	8	53	2	11	25	2	28	41	1	2
7	3	24	8	30	2	6	24	43	2	42	1	2
13	3	37	8	23	2	4	24	23	2	44	1	7
19	3	52	8	8	2	1	24	4	2	45	1	0
25	4	5	7	55	2	0	23	45	2	46	0	59
M	O's				D's		h's		u's		g's	
D	longitude				long.		latitude		long.		long.	
1	12	9	38	46	17	14	0	39	18	54	19	5
G	10	36	55		17	24	0	39	1	52	29	16
3	11	35	6		15	11	1	53	1	50	29	26
4	12	33	19		28	35	2	59	1	47	29	37
5	13	31	34		11	8	3	53	1	45	29	47
6	14	29	51		24	13	4	34	1	43	29	58
7	15	28	11		6	11	5	2	1	40	0	16
8	16	26	32		18	41	5	15	1	37	0	20
G	17	24	56		0	23	5	15	1	35	0	31
10	18	23	21		12	30	5	1	1	32	0	42
11	19	21	49		24	22	4	35	1	29	0	53
12	20	20	20		6	18	3	56	1	26	1	4
13	21	18	52		18	20	3	7	1	23	1	16
14	22	17	26		0	13	2	8	1	20	1	27
15	23	16	3		12	57	1	3	1	17	1	39
G	24	14	41		25	34	0	7	1	14	1	50
17	25	13	22		8	25	1	17	1	10	2	22
18	26	12	4		21	31	2	25	1	7	2	13
19	27	10	48		4	50	3	26	1	4	2	25
20	28	9	34		18	22	4	17	1	1	2	37
21	29	8	22		2	6	4	54	0	57	2	49
22	0	7	11		16	2	5	14	0	53	3	126
G	1	6	2		0	7	5	15	0	49	3	13
24	2	4	55		14	19	4	58	0	45	3	25
25	3	3	49		28	38	4	22	0	41	3	37
26	4	2	45		12	59	3	30	0	37	3	49
27	5	1	43		27	19	2	24	0	33	4	29
28	6	0	42		11	33	1	10	0	28	4	14
29	6	59	44		25	39	0	8	0	24	4	26
G	7	58	47		9	31	1	23	0	20	4	38
M	u's		g's		q's		g's		h's		u's	
D	sets		sets		sets		sets		declin.		declin.	
1	8	14	8	30	7	4	7	0	9	38	10	11
7	7	54	8	17	6	55	6	33	9	32	10	34
13	7	35	8	5	6	45	6	9	9	25	10	59
19	7	16	7	53	6	35	5	49	9	17	11	23
25	6	57	7	41	6	25	5	31	9	8	11	48
1	8	20	6	32	4	5	4	5	10	38	16	20
7	7	54	8	17	6	55	6	33	9	32	10	34
13	7	35	8	5	6	45	6	9	9	25	10	59
19	7	16	7	53	6	35	5	49	9	17	11	23
25	6	57	7	41	6	25	5	31	9	8	11	48

The LUNATIONS.

Last quarter the 8th day, at 5 minutes past 2 morning.

New Moon the 15th day, at 56 minutes past 10 night.

First quarter the 22d day, at 12 minutes past 8 night.

Full Moon the 29th day, at 23 minutes past 10 night.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock aft. ☉	
1	Kemigius	6 14	5 40	3 33	6 n 38	☾ rises	om 33	10 38	
2		6 16	5 44	3 56	10 25	7 a 4	1 23	10 57	
3		6 18	5 42	4 20	13 26	7 37	2 13	11 15	
4		6 20	5 40	4 45	15 45	8 13	3 2	11 33	
5		6 22	5 38	5 6	17 20	8 53	3 51	11 51	
6	Faith	6 24	5 36	5 29	18 11	9 38	4 40	12 8	
7	18 S. aft. Trin.	6 26	5 34	5 52	18 7	10 29	5 28	12 24	
8		6 28	5 32	6 15	17 15	11 23	6 16	12 41	
9	St. Denys	6 30	5 30	6 38	15 39	morn	7 3	12 56	
10	Ox & Cam. T. b	☉. Mic	5 28	7 0	13 22	0 22	7 49	13 12	
11		6 34	5 26	7 23	10 28	1 23	8 35	13 27	
12		6 36	5 24	7 46	7 3	2 27	9 20	13 41	
13	Fr. K. Edward	6 38	5 22	8 8	3 16	3 33	10 6	13 55	
14	19 S. aft. Trin.	6 40	5 20	8 30	0 46	4 42	10 53	14 8	
15		6 42	5 18	8 53	4 52	☾ sets	11 41	14 20	
16		6 44	5 16	9 15	8 48	5 a 50	0 a 31	14 32	
17	Etheldred.	6 45	5 15	9 37	12 22	6 24	1 24	14 44	
18	St. Luke	6 47	5 13	9 58	15 15	7 3	2 19	14 54	
19		6 49	5 11	10 20	17 16	7 49	3 15	15 5	
20		6 51	5 9	10 42	18 15	8 43	4 13	15 14	
21	20 S. aft. Trin.	6 53	5 7	11 3	18 4	9 45	5 11	15 23	
22		6 55	5 5	11 24	16 44	10 52	6 9	15 32	
23		6 57	5 3	11 45	14 24	morn	7 4	15 39	
24		6 59	5 1	12 6	11 13	0 5	7 58	15 46	
25	K. Geo. 2 Ac.	Crispin	4 59	12 27	7 26	1 19	8 50	15 52	
26	K. Geo. 3 Pro.	7 3	4 57	12 47	3 17	2 34	9 41	15 58	
27		7 4	4 56	13 7	1 n 1	3 48	10 30	16 3	
28	21 S. af. T. St. S.	7 8	4 54	13 27	5 12	5 2	11 19	16 7	
29		7 10	4 52	13 47	9 4	☾ rises	morn	16 10	
30		7 12	4 50	14 7	12 20	5 a 38	0 8	16 13	
31		7 12	4 48	14 20	15 6	6 11	0 57	16 14	
M D	Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♀	☾ rises
1	4 59	11 35	28 2	9 29	6 54	8 58	15 11	16 11	6 a 33
7	5 23	11 10	28 14	9 56	10 27	14 53	14 36	23 16	6 10
13	5 45	10 48	28 27	10 24	14 1	20 50	4 9	26 2	5 47
19	6 9	10 24	28 40	10 51	17 38	26 48	13 41	23 13	5 24
25	6 31	10 2	28 53	11 19	21 16	28 47	23 12	15 0	5 0

1792.

October.

27

M	Daylig.	Day lig.	Durat.	Pl. D's	h's	u's	δ's	♀'s	♂'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1	4 22	7 42	1 59	23 ^m 26	2 46	0 59	1 5 7	0 45	1 11
7	4 32	7 29	1 58	23 7	2 47	0 58	1 10	0 31	1 53
13	4 43	7 17	1 57	22 48	2 47	0 58	1 11	0 27	1 57
19	4 55	7 5	1 57	22 29	2 47	0 57	1 13	0 2	1 30
25	5 6	6 54	1 58	22 10	2 47	0 57	1 14	0 14	1 3

M	O'sd		D's	D's	h's	u's	δ's	♀'s	♂'s
D	longitue.		long.	latitude	long.	long.	long.	long.	long.
1	8	57 53	23 ^y 7	2 5 38	0 16	4 ^m 51	2 2 42	24 1	21 ^m 9
2	9	57 0	6 8 25	3 32	0 12	5 4	3 25	25 15	22 3
3	10	56 10	19 22	4 19	0 7	5 16	4 7	26 30	23 4
4	11	55 22	2 11	5 52	0 3	5 29	4 50	27 44	24 12
5	12	54 36	14 23	5 11	29 ^y 58	5 41	5 33	28 58	25 25
6	13	53 53	26 32	5 15	29 54	5 54	6 15	om 13	26 44
G	14	53 12	8 30	5 5	29 4	6 7	6 58	1 27	28 8
8	15	52 34	20 22	4 43	29 44	6 19	7 41	2 42	29 35
9	16	51 58	2 14	4 8	29 40	6 32	8 24	3 56	1 5
10	17	51 24	14 10	3 23	29 35	6 45	9 8	5 11	2 49
11	18	50 53	26 15	2 28	29 31	6 58	9 51	6 25	4 16
12	19	50 24	8 ^m 32	1 25	29 26	7 11	10 34	7 40	5 54
13	20	49 58	21 6	0 17	29 22	7 24	11 18	8 55	7 33
G	21	49 33	3 58	om 53	29 17	7 36	12 1	10 9	9 13
15	22	49 11	17 10	2 22	29 13	7 49	12 45	11 24	10 34
16	23	48 51	om 40	3 6	29 8	8 2	13 28	12 38	12 35
17	24	48 33	14 26	4 12	29 3	8 15	14 12	13 53	14 15
18	25	48 16	28 26	4 4	28 58	8 28	14 56	15 7	15 58
19	26	48 2	12 35	5 6	28 53	8 41	15 40	16 22	17 41
20	27	47 49	26 50	5 11	28 49	8 54	16 24	17 36	19 22
Q	28	47 39	11 ^y 5	4 58	28 44	9 7	17 8	18 51	21 3
22	29	47 29	25 17	4 26	28 39	9 20	17 53	20 5	22 48
23	0	47 21	9 ^m 26	3 38	28 34	9 33	18 37	21 20	24 27
24	1	47 15	23 29	2 38	28 29	9 46	19 21	22 34	26 8
25	2	47 11	7 ^x 24	1 28	28 24	10 0	20 6	23 49	27 49
26	3	47 8	21 12	0 14	28 20	10 13	20 50	25 4	29 29
27	4	47 7	4 ^y 50	0 59	28 15	10 26	21 35	26 18	1 ^m 9
G	5	47 7	18 18	2 9	28 10	10 39	22 20	27 33	2 48
29	6	47 10	1 8 33	3 10	28 5	10 52	23 4	28 47	4 26
30	7	47 14	14 35	4 0	28 0	11 5	23 49	0 8	6 5
31	8	47 20	27 23	4 37	27 55	11 18	24 34	1 16	7 44

M	u's	δ's	♀'s	♂'s	h's	u's	δ's	♀'s	♂'s
D	sets	sets	sets	rises	declin.	declin.	declin.	declin.	declin.
1	6 a 38	7 a 31	6 a 16	4 ^m 30	8 59	12 14	31 50	8 38	4 36
7	6 19	7 23	6 7	4 48	8 49	12 40	32 39	11 30	2 20
13	5 59	7 14	5 59	5 15	8 39	13 6	33 20	14 13	1 13
19	5 39	7 6	5 52	5 50	8 29	13 31	34 54	16 43	5 28
25	5 19	6 50	5 44	6 30	8 15	13 56	36 24	18 59	9 4

THE LUNATIONS.

Left quarter the 6th day, at 35 minutes past 10 night.

New Moon the 14th day, at 16 minutes past 11 morning.

First quarter the 21st day, at 52 minutes past 3 morning.

Full Moon the 28th day, at 15 minutes past 2 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☾'s declin.	☾ rises & sets	☾ South	Clock aft. ☉	
1	All Saints	7 14	4 46	14 45	17 2	6 52	1m 4'	16 15	
2	Pr. Edw. b.	all Soul	4 45	15 4	18 7	7 34	2 35	16 15	
3	Pr. Sophia b.	7 17	4 43	15 23	18 22	8 22	3 24	16 15	
4	21 S. aft. Trin.	7 19	4 41	15 42	17 48	9 15	4 12	16 13	
5	Powder Plot	7 21	4 39	16 0	16 29	10 11	4 59	16 11	
6	Leonard. 1er. b.	7 22	4 38	16 18	14 23	11 10	5 45	16 7	
7		7 24	4 36	16 35	11 42	morn	6 30	16 3	
8	Pr. Aug. So b.	7 26	4 34	16 53	8 30	0 13	7 15	15 58	
9	Ld. Mayor's day	7 27	4 33	17 10	4 52	1 17	8 0	15 52	
10		7 29	4 31	17 26	0 56	2 24	8 45	15 46	
11	23 S. aft. Trin.	St. Ma.	4 29	17 43	3 10	3 33	9 32	15 38	
12	Cam. T. div. m.	7 32	4 28	17 59	7 14	4 43	10 21	15 30	
13	Britius	7 34	4 26	18 15	11 3	5 50	11 13	15 20	
14		7 36	4 24	18 30	14 20	☾ sets	0 2	15 10	
15	Machutus	7 37	4 23	18 45	16 48	5 37	1 4	14 59	
16		7 39	4 21	19 0	18 12	6 33	2 3	14 47	
17	Hugh B. of Ljn.	7 40	4 20	19 15	18 24	7 34	3 3	14 35	
18	24 S. aft. Trin.	7 42	4 18	19 29	17 22	8 41	4 2	14 21	
19		7 43	4 17	19 43	15 14	9 53	4 59	14 7	
20	Edmund	7 44	4 16	19 56	12 12	11 7	5 53	13 52	
21		7 46	4 14	20 9	8 31	morn	6 45	13 36	
22	Cecilia. O.M.d.	7 47	4 13	20 22	4 26	0 22	7 35	13 19	
23	St. Clement.	7 48	4 12	20 34	0 11	1 35	8 24	13 2	
24		7 50	4 10	20 46	11 0	2 46	9 12	12 44	
25	25 S. aft. Trin.	D. Gl. b.	4 9	20 58	7 56	3 55	9 59	12 25	
26		7 52	4 8	21 9	11 26	5 3	10 47	12 5	
27		7 53	4 7	21 20	14 22	6 9	11 35	11 45	
28	Mic. Term end.	7 54	4 6	21 30	16 34	☾ rises	morn	11 24	
29		7 56	4 4	21 40	17 59	5 23	0 24	11 2	
30	St. Andrew.	7 57	4 3	21 50	18 32	6 9	1 12	10 40	
V D	Day decreas.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ☿	☾ sets
1	6 57	9 37	29 7	11 15	25 53	9 8	4 17	8 11	6 m 3
7	7 19	9 15	29 20	12 15	29 14	15 45	13 46	25 46	5 37
3	7 39	8 55	29 33	12 46	2 57	21 52	13 15	12 22	5 11
9	7 58	8 36	29 46	13 14	6 42	27 54	2 44	28 57	4 44
5	8 14	8 29	29 59	13 43	10 27	4 11	12 13	16 15	4 17

1798.

November.

29

M Day lig.	Daylig.	Durat.	Pf. Y's	H's	U's	S's	Q's	W's
D begins	ends	twilig.	mode	latitude	latitude	latitude	latitude	latitude
1	5 17	6 43	1 5	21 43	2 47	0 56	1 15	0 33
7	5 25	6 35	2 2	21 29	2 46	0 51	1 16	0 41
13	5 34	6 26	2 3	21 10	2 45	0 56	1 17	1 2
19	5 41	6 19	2 5	20 51	2 44	0 56	1 17	1 16
25	5 48	6 12	2 7	20 32	2 43	0 56	1 16	1 27
M	☉'s	D's	D's	H's	U's	S's	Q's	W's
D	longitude	long.	latitude	long.	long.	long.	long.	long.
1	m 9 47 28	9 56	4 5	29 50	11 32	25 19	2 31	9 11 21
2	10 47 39	22 15	5 7	27 46	11 45	26 4	3 45	10 58
3	11 47 50	4 22	5 1	27 41	11 58	26 49	5 0	12 35
G	12 48 4	16 19	4 42	27 37	11 11	27 34	6 14	4 11
5	13 48 21	28 11	4 11	27 32	11 25	28 19	7 20	15 46
6	14 48 39	10 1	3 30	27 28	11 38	29 4	8 43	17 24
7	15 49 0	21 55	2 39	27 24	12 51	29 49	9 58	18 58
8	16 49 22	3 59	1 40	27 19	12 4	30 34	11 12	20 33
9	17 49 47	16 16	0 36	27 15	12 17	1 2	12 26	22 7
10	18 50 13	28 53	0 32	27 11	12 31	2 5	13 41	23 42
G	19 50 42	11 52	1 40	27 7	12 44	2 51	14 55	25 16
12	20 51 12	25 16	2 44	27 3	12 57	3 36	16 10	26 50
13	21 51 44	9 11	3 41	26 59	14 10	4 22	17 24	28 24
14	22 52 18	23 17	4 25	26 55	14 23	5 8	18 38	29 57
15	23 52 54	7 45	4 54	26 51	14 36	5 53	19 53	1 4 30
16	24 53 31	22 24	5 3	26 47	14 50	6 39	21 7	3 3
17	25 54 9	7 6	4 53	26 43	14 3	7 25	22 21	4 35
G	26 54 48	21 42	4 24	26 39	14 16	8 11	23 36	6 8
19	27 55 19	6 9	3 38	26 35	15 29	8 57	24 50	7 41
20	28 56 11	20 21	2 30	26 31	15 42	9 43	26 4	9 13
21	29 56 54	4 19	1 32	26 28	15 55	10 29	27 19	10 44
22	30 57 37	18 1	0 20	26 24	15 8	11 15	28 33	12 16
23	1 58 22	1 30	0 51	26 21	15 21	12 2	29 47	13 48
24	2 59 8	14 46	1 59	26 17	15 34	12 48	1 2	15 20
G	3 59 55	27 50	2 59	26 14	16 47	13 34	2 16	16 51
26	5 0 43	10 43	3 48	26 11	16 0	14 20	3 30	18 22
27	6 1 32	23 26	4 26	26 8	16 13	15 6	4 44	19 52
28	7 2 22	5 59	4 50	26 5	16 26	15 53	5 59	21 52
29	8 3 13	18 20	5 0	26 2	16 38	16 39	7 13	22 52
30	9 4 6	0 32	4 56	25 59	16 51	17 25	8 27	24 22
M	☉'s	☉'s	☉'s	☉'s	H's	U's	S's	Q's
D	riset	sets	sets	sets	declin.	declin.	de. in.	declin.
1	7 m 21	6 45	5 39	4 49	8 7	14 25	24 38	21 8 24
7	7 4	6 48	5 36	4 44	7 59	14 49	24 44	22 4 17
13	6 47	6 44	5 36	4 37	7 50	15 13	24 40	23 5 20
19	6 30	6 42	5 39	4 30	7 43	15 37	24 26	24 3 23
25	6 13	6 39	5 47	4 36	7 30	15 59	24 24	24 2 40

The LUNATIONS.

Left quarter the 6th day, at 50 minutes past 6 night.

New Moon the 13th day, at 26 minutes past 10 night.

First quarter the 20th day, at 46 minutes past 1 afternoon.

Full Moon the 28th day, at 16 minutes past 8 morning.

M	Sundays & other D remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
6	Adv. Sunday.	7 58	4 2	21 59	18 n 15	6 a 59	2 m 0	10 17	
7		7 59	4 1	22 8	17 9	7 54	2 47	9 53	
8		8 0	4 0	22 16	15 20	8 52	3 33	9 29	
9		8 0	4 0	22 24	12 52	9 52	4 18	9 4	
10		8 1	3 59	22 31	9 52	10 53	5 2	8 39	
11	Nicholas	8 2	3 58	22 38	6 25	11 58	5 46	8 13	
12		8 3	3 57	22 45	2 38	morn	6 30	7 47	
13	Conception 2 Sund. in Adv.	8 4	3 56	22 51	1 6 22	1 5	7 15	7 20	
14		8 4	3 56	22 56	5 24	2 12	8 1	6 52	
15		8 5	3 55	23 2	9 20	3 12	8 50	6 25	
16		8 5	3 55	23 6	12 54	4 35	9 42	5 57	
17		8 6	3 54	23 11	15 49	5 48	10 37	5 28	
18	Lucy	8 6	3 54	23 14	17 47	☽ sets	11 35	4 50	
19		8 7	3 53	23 18	18 34	5 a 5	☉ 36	4 30	
20		8 7	3 53	23 21	18 2	6 11	1 37	4 0	
21	3 Sund. in Adv	☉ Sap.	C. T. e.	23 23	16 15	7 24	2 37	3 31	
22	Oxf. Term ends	8 8	3 52	23 25	13 24	8 40	3 35	3 1	
23	Ember Week	8 8	3 52	23 26	9 47	9 57	4 29	2 31	
24		8 8	3 52	23 27	5 41	11 11	5 21	2 1	
25		8 8	3 52	23 28	1 23	morn	6 10	1 31	
26	St. Thomas	Shor. d.	3 52	23 28	2 a 53	0 25	6 58	1 1	
27		8 8	3 52	23 27	6 54	1 35	7 45	0 31	
28	4 Sund. in Adv	8 8	3 52	23 27	10 30	2 42	8 32	0 1	
29		8 8	3 52	23 25	13 35	3 47	9 19	obscure	
30	Christmas D.	8 7	3 53	23 23	16 0	4 50	10 7	0 59	
31	St. Stephen	8 7	3 53	23 21	17 39	5 50	10 55	1 29	
1	St. John	8 7	3 53	23 18	18 29	6 45	11 43	1 58	
2	Innocents	8 6	3 54	23 15	18 29	☽ rises	morn	2 27	
3		8 6	3 54	23 11	17 39	5 a 32	0 30	2 56	
4	Sun. aft. Christ	8 5	3 55	23 7	16 4	6 28	1 16	3 25	
5	Silvester	8 5	3 55	23 2	13 48	7 27	2 1	3 54	
M	Day	Length of day	Helioc. long. h	Helioc. long. l	Helioc. long. s	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ♂	h sets
1	8 28	8 6	0 8 11	14 11	14 11	10 11	5 21	42	2 31
7	8 40	7 54	0 24 14	14 37	13 18	16 11	13 13	26 35	2 4
13	8 46	7 48	0 37 15	15 11	11 48	22 17	10 43	11 53	1 37
19	8 50	7 44	0 50 15	15 32	25 37	28 24	10 15	12 12	1 11
25	8 52	7 46	1 3 16	16 29	25 42	31 29	47	17 36	0 45

1792.

December.

3rd

M D	Day lig. begins	Day lig. ends	Purat. twilig.	Pl. D's node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	5 54	6 0	2 8	20 12	2 42	0 55	1 16	1 37	2 17
7	5 57	6 3	2 10	19 53	2 40	0 54	1 15	1 45	2 18
13	5 59	6 1	2 12	19 34	2 38	0 56	1 14	1 50	2 57
19	6 1	5 59	2 11	19 15	2 37	0 50	1 13	1 53	1 2
25	6 1	5 59	2 11	18 56	2 35	0 56	1 11	1 52	0 35

M D	O's longitude		D's long.	D's latitude	h's long.	u's long.	δ's long.	♀'s long.	♂'s long.
1	10	5 0	12 34	4 35	25 56	18 4	18 12	9 41	25 51
G	11	5 55	4 29	4 9	25 53	18 17	18 59	10 36	27 19
3	12	6 31	6 18	3 29	25 51	18 29	19 45	12 10	28 47
4	13	7 48	18 7	2 40	25 48	18 42	20 32	13 24	0 15
5	14	8 47	29 59	1 44	25 46	18 54	21 19	14 30	1 42
6	15	9 47	11 59	0 43	25 43	19 7	22 5	15 52	3 7
7	16	10 48	24 13	0 22	25 41	19 20	22 52	17 6	4 31
8	17	11 51	6 47	1 27	25 39	19 3	23 39	18 20	5 53
G	18	12 55	19 44	2 30	25 37	19 45	24 20	19 34	7 14
10	19	14 0	3 9	3 27	25 35	19 57	25 12	20 48	8 35
11	20	15 5	17 4	4 13	25 34	20 10	25 59	22 2	9 53
12	21	16 12	1 47	4 45	25 32	20 22	26 46	23 16	11 8
13	22	17 20	16 13	5 0	25 31	20 34	27 33	24 30	12 19
14	23	18 28	1 15	4 54	25 29	20 47	28 20	25 44	13 27
15	24	19 36	16 22	4 27	25 28	20 59	29 7	26 58	14 31
G	25	20 45	1 23	3 42	25 26	21 11	29 54	28 12	15 31
17	26	21 55	16 12	2 43	25 25	21 23	0 41	29 25	16 24
18	27	23 5	0 40	1 34	25 24	21 35	1 28	0 39	17 12
19	28	24 14	14 47	0 21	25 23	21 47	2 15	1 53	17 53
20	29	25 24	28 30	0 52	25 22	21 59	3 2	3 7	18 26
21	0	26 34	11 53	1 59	25 22	22 10	3 49	4 21	18 50
22	1	27 44	24 58	2 59	25 21	22 23	4 36	5 34	19 5
G	2	28 54	7 47	3 49	25 21	22 33	5 24	6 45	19 11
24	3	30 3	20 24	4 26	25 20	22 45	6 1	8 2	19 6
25	4	31 13	2 50	4 50	25 20	22 56	6 58	9 15	18 43
26	5	32 23	15 6	5 0	25 20	23 8	7 45	10 28	18 18
27	6	33 32	27 15	4 57	25 20	23 19	8 32	11 41	17 34
28	7	34 42	9 17	4 40	25 20	23 30	9 19	12 55	16 36
29	8	35 52	21 14	4 11	25 20	23 42	10 7	14 8	15 32
G	9	37 2	3 5	3 31	25 20	23 53	10 54	15 21	14 20
31	10	38 12	14 54	2 42	25 21	24 4	11 41	16 35	13 4

M D	u's rites	δ's sets	♀'s sets	♂'s sets	h's declin.	u's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	5 53	6 38	5 52	4 44	7 31	10 21	13 29	24 44	25 41
7	5 34	6 37	6 2	5 22	7 27	16 41	22 46	24 7	25 42
13	5 16	6 35	6 15	5 10	7 25	17 1	21 54	23 3	24 50
19	4 56	6 34	6 20	5 8	7 24	17 20	20 52	21 36	23 17
25	4 36	6 34	6 40	5 5	7 24	17 38	19 41	19 46	21 35

Months	Days	Heliocentric		Geocentric		Decl.	South.	
		longitude	latitude	longitude	latitude			
		° ' "	° ' "	° ' "	° ' "	° ' "	h m	
January	1	16 30	0 41	18 22	0 43	16 1	14	34
	11	16 38	0 41	18 1	0 44	16 18	13	49
	21	16 46	0 41	17 37	0 44	16 6	13	5
February	1	16 54	0 42	17 9	0 44	16 24	12	18
	11	17 2	0 42	16 43	0 44	16 32	11	36
	21	17 9	0 42	16 17	0 44	16 40	10	55
March	1	17 16	0 42	15 56	0 44	16 47	10	20
	11	17 24	0 42	15 34	0 44	16 53	9	42
	21	17 32	0 42	15 16	0 43	16 58	9	5
April	1	17 40	0 42	15 2	0 43	17 2	8	24
	11	17 48	0 42	14 54	0 43	17 4	7	47
	21	17 56	0 42	14 52	0 42	17 4	7	10
May	1	18 3	0 42	14 54	0 42	17 3	6	32
	11	18 11	0 42	15 3	0 42	17 0	5	54
	21	18 19	0 42	15 16	0 41	16 56	5	15
June	1	18 27	0 42	15 36	0 41	16 50	4	32
	11	18 35	0 42	15 59	0 41	16 43	3	52
	21	18 43	0 41	16 26	0 41	16 34	3	13
July	1	18 50	0 42	16 56	0 40	16 25	2	34
	11	18 58	0 42	17 29	0 40	16 15	1	55
	21	19 6	0 42	18 4	0 40	16 4	1	17
August	1	19 14	0 42	18 45	0 40	15 52	0	36
	11	19 22	0 42	19 22	0 40	15 40	0	1
	21	19 30	0 42	19 59	0 40	15 28	23	23
September	1	19 38	0 42	20 40	0 40	15 15	22	45
	11	19 46	0 42	21 15	0 41	15 4	22	11
	21	19 54	0 43	21 48	0 41	14 54	21	38
October	1	20 1	0 43	22 18	0 41	14 45	21	4
	11	20 9	0 43	22 45	0 41	14 37	20	29
	21	20 17	0 43	23 7	0 42	14 29	19	53
November	1	20 25	0 43	23 27	0 42	14 23	19	11
	11	20 33	0 43	23 38	0 43	14 19	18	32
	21	20 41	0 43	23 45	0 43	14 17	17	51
December	1	20 48	0 43	23 46	0 44	14 17	17	8
	11	20 56	0 43	23 42	0 44	14 19	16	24
	21	21 4	0 43	23 32	0 44	14 23	15	35
	31	21 12	0 43	23 17	0 45	14 29	14	54

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Days	JANUARY				FEBRUARY				MARCH				APRIL			
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.	
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m
1	7	10	7	36	8	0	8	36	7	29	7	57	8	57	9	28
2	8	4	8	38	9	7	9	40	8	27	8	57	9	59	10	30
3	9	3	9	38	10	10	10	40	9	29	10	2	11	1	11	31
4	10	3	10	31	11	10	11	40	10	33	11	3		0		
5	11	2	11	31			0	9	11	33			0	27	0	54
6	11	59			0	36	1	2	0	3	0	30	1	20	1	46
7	0	25	0	51	1	26	1	51	0	56	1	22	2	11	2	34
8	1	16	1	40	2	14	2	35	1	45	2	10	2	56	3	15
9	2	4	2	26	2	54	3	11	2	33	2	52	3	32	3	50
10	2	47	3	5	3	26	3	41	3	9	3	26	4	7	4	30
11	3	19	3	33	3	55	4	11	3	42	3	56	4	51	5	15
12	3	48	4	3	4	28	4	47	4	14	4	34	5	39	6	8
13	4	18	4	35	5	6	5	27	4	56	5	18	6	38	7	9
14	4	54	5	12	5	50	6	17	5	41	6	9	7	42	8	16
15	5	30	5	51	6	45	7	16	6	38	7	10	8	51	9	26
16	6	15	6	41	7	40	8	24	7	43	8	19	10	2	10	35
17	7	9	7	39	9	2	9	41	8	57	9	36	11	7	11	38
18	8	11	8	45	10	21	11	0	10	14	10	50		0	0	5
19	9	23	10	1	11	37			11	24	11	56	0	36	1	1
20	10	40	11	19	0	11	0	44			0	27	1	26	1	49
21	11	58			1	13	1	41	0	55	1	22	2	12	2	36
22	0	33	1	5	2	9	2	35	1	47	2	12	2	53	3	10
23	1	37	2	7	2	54	3	12	2	34	2	55	3	26	3	42
24	2	33	2	5	3	29	3	44	3	13	3	26	3	56	4	10
25	3	15	3	32	3	59	4	13	3	41	3	57	4	28	4	47
26	3	49	4	5	4	32	4	51	4	13	4	30	5	5	5	24
27	4	23	4	42	5	9	5	27	4	48	5	7	5	45	6	8
28	4	59	5	17	5	49	6	12	5	26	5	46	6	32	6	58
29	5	37	5	59	6	36	7	2	6	9	6	34	7	26	7	51
30	6	22	6	47					6	59	7	26	8	20	8	50
31	7	12	7	38					7	55	8	26				

This Table may serve the following Places, by adding

	h	m
For Tinnmouth Haven, Hartle-pool, and Amsterdam	0	30
Brest	1	0
Scilly	1	45
Mount's Bay	1	55
Bridlington Pier and Humber	2	0

Tide Tables.

White.

ne of High-Water at LONDON in the morning and afternoon of every day in the year.

MAY				JUNE				JULY				AUGUST				Mo. Day
morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
9	21	9	53	10	43	11	16	11	11	11	46	0	41	1	13	
10	24	10	54	11	48				0	24		1	44	2	13	
11	26	11	57	0	22	0	53	0	59	1	32	2	44	3	3	
		0	26	1	24	1	55	2	4	2	31	3	22	3	39	
0	54	1	22	2	25	2	50	2	57	3	17	3	55	4	14	
1	4	2	16	3	12	3	32	3	37	3	55	4	32	4	51	
2	43	3	9	3	51	4	11	4	12	4	34	5	10	5	30	
3	24	3	43	4	33	4	53	4	55	5	15	5	51	6	15	
4	1	4	24	5	15	5	40	5	39	6	0	6	40	7	4	
4	41	5	10	6	6	6	32	6	24	6	45	7	31	8	0	
5	3	6	0	6	59	7	26	7	14	7	42	8	30	9	0	
6	20	6	58	7	54	8	24	8	9	8	39	9	32	10	9	
7	27	7	54	8	54	9	25	9	9	9	39	10	35	11	6	
8	31	9	3	9	57	10	27	10	10	10	40	11	37			
9	36	10	7	10	56	11	26	11	11	11	41	0	5	0	32	
10	38	11	8	11	54				0	10		0	58	1	22	
11	38			0	21	0	47	0	37	1	2	1	46	2	9	
0	0	0	32	1	12	1	30	1	26	1	50	2	29	2	49	
0	57	1	21	2	1	2	24	2	13	2	36	3	5	3	20	
1	41	2	9	2	41	3	1	2	53	3	9	3	25	3	49	
2	31	2	51	3	17	3	32	3	24	3	39	4	4	4	20	
2	8	3	24	3	46	4	0	3	43	4	6	4	38	4	57	
3	35	3	54	4	16	4	33	4	23	4	40	5	17	5	37	
4	10	4	25	4	50	5	7	4	57	5	14	6	3	6	29	
4	45	5	1	5	25	5	44	5	34	5	55	7	0	7	29	
5	19	5	38	6	7	6	30	6	20	6	46	8	4	8	41	
6	1	6	23	6	54	7	19	7	15	7	44	9	21	10	1	
6	47	7	11	7	48	8	18	8	18	8	54	10	40	11	18	
7	38	8	6	8	51	9	25	9	32	10	11	11	54	0	59	
8	36	9	7	10	0	10	37	10	49	11	27	0	29	1	57	
0	30	10	11					11	54			1	29			

Adding

					h	m
For Fowey, Loo and Plymouth	—	—	—	—	3	10
Dartmouth, Harbrough and Hull	—	—	—	—	3	30
Torrey and Timmouth	—	—	—	—	3	40
Exmouth, Topsham and Lyme	—	—	—	—	3	50
Weymouth.	—	—	—	—	4	20
Bridgewater and Texel.	—	—	—	—	4	40
Portland and Hartlew	—	—	—	—	5	50

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

Mo. Day.	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				Mo. Day.
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	2	25	2	46	2	52	3	9	3	41	4	56	3	42	4	4	1
2	3	6	3	24	3	26	3	42	4	10	4	29	4	20	4	37	2
3	3	41	3	56	3	57	4	14	4	48	5	7	4	55	5	13	3
4	4	11	4	29	4	32	4	50	5	26	5	47	5	31	5	51	4
5	4	40	5	8	5	9	5	20	6	10	6	34	6	13	6	36	5
6	5	27	5	50	5	51	6	15	6	59	7	24	7	0	7	25	6
7	6	13	6	39	6	40	7	6	7	50	8	10	7	50	8	19	7
8	7	5	7	33	7	33	8	2	8	48	9	18	8	48	9	19	8
9	8	2	8	32	8	32	9	2	9	49	10	18	9	50	10	21	9
10	9	2	9	34	9	33	10	1	10	47	11	17	10	53	11	23	10
11	10	7	10	37	10	34	11	3	11	48			11	59			11
12	11	6	11	36	11	32	11	59	0	36	0	43	0	30	1	0	12
13				5		0		26	1	30	1	37	1	30	2	0	13
14	0	31	0	56	0	52	1	17	2	5	2	32	2	27	2	54	14
15	1	20	1	43	1	42	2	6	2	57	3	13	3	14	3	32	15
16	2	6	2	30	2	29	2	51	3	32	3	51	3	52	4	12	16
17	2	48	3	6	3	12	3	32	4	12	4	32	4	34	4	57	17
18	3	22	3	37	3	46	4	0	4	55	5	18	5	19	5	41	18
19	3	52	4	8	4	20	4	42	5	44	6	10	6	7	6	33	19
20	4	27	4	47	5	4	5	26	6	38	7	7	7	0	7	26	20
21	5	8	5	30	5	54	6	23	7	38	8	5	7	56	8	26	21
22	5	57	6	25	6	54	7	25	8	42	9	15	8	57	9	28	22
23	6	56	7	27	8	0	8	34	9	47	10	20	10	0	10	31	23
24	8	3	8	40	9	10	9	46	10	51	11	22	11	1	11	31	24
25	9	19	9	58	10	20	10	53	11	50				0		0	25
26	10	34	11	9	11	26	11	58	0	40	0	45	0	28	0	54	26
27	11	43				0	25		1	11	1	36	1	19	1	44	27
28	0	17	0	46	0	53	1	18	2	0	2	23	2	8	2	30	28
29	1	15	1	41	1	43	2	8	2	45	3	2	2	50	3	6	29
30	2	7	2	30	2	32	2	50	3	19	3	34	3	22	3	36	30
31					3	8	3	25					3	50	4		31

Subtracting

For Leigh, Macc, and Gouries Gut	—	—	—	—	0	5
Gravelend, Rochester, and Rammekins	—	—	—	—	1	20
Buoy of the Nore and Flushing	—	—	—	—	1	30
Portsmouth, Ostend, Shoe-Beacon, and Red-Sand	—	—	—	—	2	0
Harwich, Dover, Spithead, and Calais	—	—	—	—	3	0
Gunfleet, Hastings, Shoreham, Orfordness, and Dipe	—	—	—	—	4	0
Yarmouth Pier and Needle	—	—	—	—	4	40
St. Helen's and Havre-de-Grace	—	—	—	—	5	5

The Eclipses of Jupiter's

JANUARY	FEBRUARY	MARCH	APRIL
Emerfions	Immerfions	Immerfions	Immerfions
1 13 39 59	2 10 0 26	1* 17 36 41	2* 14 18 20
3 8 7 33	4 4 28 39	3* 12 5 29	4* 8 47 23
5 2 35 6	5 22 56 54	5 6 34 19	6 3 16 28
6 21 2 40	7* 17 25 12	7 1 3 12	7 21 45 31
8* 15 30 16	9 11 53 33	8 19 32 7	9* 16 14 35
10 9 57 53	11 6 21 56	10* 14 1 2	11* 10 43 37
12 4 25 31	13 0 50 22	12 8 29 57	13 5 12 40
13 22 53 15	14 19 18 50	14 2 58 56	14 23 41 40
15* 17 20 55	16* 13 47 20	15 21 27 54	Emerfions
17 11 48 42	18 8 15 51	17* 15 56 55	16 20 19 3
19 6 16 30	20 2 44 24	19* 10 25 55	18* 14 48 0
21 0 44 20	21 21 13 1	21 4 54 57	20* 9 16 58
22 19 12 12	23* 15 41 42	22 23 23 58	22 3 45 55
24* 13 40 8	25 10 10 23	24 17 53 1	23 22 14 51
26 8 8 6	27 4 39 8	26* 12 22 3	25 16 43 45
28 2 36 6	28 23 7 53	28 6 51 7	27* 11 12 39
29 21 4 9		30 1 20 9	29 5 41 30
31* 15 32 16		31 19 49 13	
MAY	JUNE	JULY	AUGUST
Emerfions	Emerfions	Emerfions	Emerfions
1 0 10 22	1 20 45 30	1 22 47 24	1 0 52 57
2 18 39 10	3 15 13 54	3 17 15 45	2 19 21 46
4* 13 7 59	5* 9 42 18	5 11 44 11	4 13 50 34
6 7 36 46	7 4 10 41	7 6 12 37	6 8 19 26
8 2 5 32	8 22 39 4	9 0 41 2	8 2 48 19
9 20 34 17	10 17 7 26	10 19 9 30	9 21 17 15
11 15 2 58	12* 11 35 46	12 13 38 1	11 15 46 13
13* 9 31 40	14 6 4 5	14 8 6 31	13 10 15 9
15 4 0 18	16 0 32 24	16 2 35 2	15 4 44 9
16 22 28 55	17 19 0 43	17 21 3 35	16 23 13 8
18 16 57 31	19 13 29 3	19 15 32 9	18 17 42 10
20* 11 26 5	21 7 57 22	21 10 0 43	20 12 11 14
22 5 54 37	23 2 25 41	23 4 29 22	22 6 40 19
24 0 23 9	24 20 54 1	24 22 58 1	24 1 9 22
25 18 51 39	26 15 22 20	26 17 26 42	25 19 38 29
27* 13 20 8	28* 9 50 41	28 11 55 25	27 14 7 36
29 7 48 37	30 4 19 4	30 6 24 11	29 8 36 45
2 17 5			31 3 5 54

first Satellite for 1792.

SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
Emerfions			Immerfions
1 21 35 4			1 1 49 46
3 16 4 15			2 20 17 24
5 10 33 26			4 14 45 3
7 5 2 38	The Eclipses of Jupiter's Satellites will not be vifible this month, Jupiter being too near the Sun.	The Eclipses of the Satel- lites of Ju- piter will not be vifible this Month, Jupiter being too near the Sun.	6 9 12 38
8 23 31 46			8 3 40 12
10 18 1 0			9 22 7 45
12 12 30 9			11 16 35 16
14 6 59 22			13 11 2 48
16 1 28 32			15 5 30 14
17 19 57 43			16 23 57 43
19 14 26 52			18* 18 25 9
21 8 56 3			20 12 52 36
23 3 25 12			22 7 20 2
24 21 54 23			24 1 47 30
26 16 13 30			25 20 14 58
28 10 52 38			27 14 42 25
30 5 21 44			29 9 9 52
			31 3 37 21

The Times of the Eclipses contained in this Table, are adapted to the Meridian of the Royal Observatory at Greenwich, and afford an excellent Method to discover the Longitude, or Difference of Meridians, between that and any other Place; which I shall illustrate by an EXAMPLE:

Suppose on the 25th Day of December of this Year, the Time of the Immersion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 22 h. 3 min. 18 sec.; I find by the Table that the Time of this Immersion will happen at the British Observatory, at 20 h. 14 min. 58 sec. the same day: The Difference of the Times is 2 hour 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Observation, to the East, because the Time is more than that at the British Observatory.

N. B. Those marked with an Asterisk are visible at Greenwich.

Speculum Phenomenorum

JANUARY

1	♂ elong. max.
2	☐ ☉ h 12h.
6	♂ in apoge
6	♂ in ☿
9	♂ stationary
12	☉ in ♄'s ☿
11	♂ in perihelio
14	♂ ☿ 18h.
16	♂ ☿ 24 21h.
17	♂ ☿ 21h.
19	♂ ☿ 23h.
19	☉ in ☿ 18h. 11m
20	☐ ☉ 24 6h.
20	♂ in aphelio
21	♂ in perigeo
22	♂ ☿ 12h.
23	♂ ☿ 7h.
30	♂ stationary

FEBRUARY

2	♂ in apoge
5	♂ stationary
11	♂ ☿ 4h.
11	♂ elong. max.
14	☉ ☿ 8h.
13	♂ ☿ 4h.
13	♂ in ☿
15	♂ stationary
18	♂ ☿ 12h.
18	☉ in ☿ 9h. om
18	♂ in perige
19	♂ ☿ 21h.
23	♂ in aphelio
24	♂ ☿ 21h.

MARCH

1	♂ in apogeo
8	♂ in ☿
9	♂ ☿ 0h.
11	♂ ☿ 24 8h.
15	♂ ☿ 14h.
16	♂ in perigeo
19	♂ ☿ 10h.
19	☉ in ☿ 9h. 22m.
21	♂ ☿ 21h.
22	☉ ecl. invis.
23	♂ ☿ 13h.
27	♂ ☿ 9h.
29	♂ in apogeo

APRIL

3	♂ in ☿
4	♂ ☿ 17h.
7	♂ ☿ 24 12h.
7	♂ in perihelio
10	♂ ☿ 16h.
10	♂ in perige
12	♂ in aphelio
15	☉ ☿ 24 12h.
15	♂ ☿ 9h.
18	☉ in ☿ 22h. 4m.
20	♂ ☿ 3h.
22	♂ ☿ 14h.
22	♂ elong. max.
26	♂ stationary
26	♂ in apoge

MAY

1	♂ ☿ 20h.
4	♂ ☿ 24 16h.
4	♂ stationary
4	☐ ☉ H
5	☉ in ♄'s ☿
7	☉ in ☿
8	♂ in perige
12	♂ in ☿
14	♂ ☿ 19h.
17	♂ ☿ 16h.
18	♂ ☿ 13h.
19	♂ ☿ 17h.
19	☉ in H 22h. 30m.
21	♂ in aphelio
23	♂ in apoge
27	♂ stationary
29	♂ ☿ 16h.
31	♂ ☿ 24 16h.

JUNE

2	☉ in H ☿
4	☉ in ♄'s ☿
5	♂ in perige
10	♂ elong. max.
14	♂ ☿ 3h.
17	♂ ☿ 19h.
17	♂ ☿ 1h.
17	♂ stationary
20	☉ in ☿ 7h. 19m.
20	♂ in apoge
21	☐ ☉ 20h.
26	♂ ☿ 20h.
28	♂ ☿ 24 5h.
29	☉ in 24 ☿
30	♀ in ☿

ad Annum 1792.

JULY

3 ♂ in ☿
 3 ♀ in perigee
 10 ♂ ☿ 8h.
 11 ♂ ☿ 12h.
 13 ☉ in ♄'s ☿
 14 ☐ ☿ 2h.
 17 ♀ in apogee
 18 ♂ ♀ 1h.
 19 ♂ ☿ 14h.
 21 ☉ in ♄ 18h. 11m.
 23 ☐ ☿ 17h.
 25 ♂ ☿ 17h.
 25 ♂ ☿ 8h.
 30 ♀ in ☿

AUGUST

1 ☿ in perigee
 2 ♀ in perihelio
 6 ♂ ☿ 3h.
 7 ♂ ☿ 22h.
 7 ♀ in ☿
 10 ♂ ☿ 23h.
 13 ♄ stationary
 13 ♀ in apogee
 17 ♂ ☿ 13h.
 19 ♂ ☿ 16h.
 21 ♀ along. max.
 22 ♂ ☿ 5h.
 22 ♂ ☿ 29h.
 22 ☉ in ♄ 1h. 35m.
 25 ♀ mean dist.
 29 ♀ in apogee

SEPTEMBER

3 ♄ stationary
 4 ☉ ☿ 6h.
 10 ♀ in apogee
 15 ☉ eclipsed, invis.
 16 ♂ ☿ 22h.
 16 ♂ ☿ 8h.
 16 ♂ ☿ 17h.
 18 ♂ ☿ 19h.
 20 ♂ ☿ 12h.
 21 ☉ in ♄ 21h. 4m.
 25 ♀ in perigee
 26 ♄ stationary
 26 ♀ in ☿
 30 ♄ in perihelio

OCTOBER

1 ♂ ☿ 13h.
 2 ♀ along. max.
 8 ♀ in apogee
 11 ♂ ☿ 10h.
 14 ♂ ☿ 14h.
 16 ♂ ☿ 23h.
 19 ♂ ☿ 5h.
 19 ♀ in ☿
 20 ♂ ☿ 22h.
 21 ♀ in perigee
 21 ☉ in ♄ 5h. 1m.
 28 ♂ ☿ 18h.

NOVEMBER

1 ♂ ☿ 17h.
 3 ♂ ☿ 5h.
 4 ♀ in apogee
 7 ☉ in ♄'s ☿
 9 ☉ in ♄'s ☿
 13 ♂ ☿ 9h.
 13 ♀ in apheliot
 14 ♂ ☿ 12h.
 15 ♂ ☿ 21h.
 17 ♂ ☿ 8h.
 17 ♀ in perigee
 21 ☉ in ♄ 1h. 1m.
 22 ♀ in aphelio
 24 ♂ ☿ 22h.

DECEMBER

2 ♀ in apogee
 4 ☉ in ♄'s ☿
 5 ☉ in ♄'s ☿
 11 ♂ ☿ 5h.
 14 ♂ ☿ 20h.
 15 ♂ ☿ 22h.
 19 ♂ ☿ 18h.
 15 ♀ along. max.
 15 ♀ in perigee
 19 ♂ ☿
 20 ☉ in ♄ 13h. 35m.
 22 ♂ ☿ 1h.
 23 ♄ in ☿
 27 ♄ stationary
 27 ♀ in perihelio
 28 ♄ in perihelio
 29 ☉ in ♄'s ☿
 30 ♀ in apogee

A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	20
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the Left-

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 49	Lat. 50	Lat. 51	Lat. 52	Lat. 53	Lat. 54
	h. m.	h. m.	h. m.	h. m.	h. m.	h. m.
0	6 4	6 4	6 4	6 4	6 4	6 4
1	5 59	5 59	5 58	5 58	5 58	5 58
2	5 54	5 54	5 53	5 53	5 53	5 53
3	5 49	5 49	5 49	5 48	5 48	5 47
4	5 45	5 44	5 44	5 43	5 42	5 42
5	5 40	5 39	5 39	5 38	5 37	5 36
6	5 35	5 35	5 34	5 33	5 31	5 30
7	5 31	5 30	5 29	5 27	5 26	5 25
8	5 26	5 25	5 23	5 22	5 21	5 19
9	5 21	5 20	5 18	5 17	5 16	5 13
10	5 17	5 15	5 13	5 11	5 10	5 8
11	5 12	5 10	5 8	5 6	5 4	5 2
12	5 7	5 5	5 3	5 0	4 58	4 56
13	5 2	5 0	4 57	4 55	4 52	4 50
14	4 57	4 54	4 52	4 49	4 47	4 44
15	4 52	4 49	4 46	4 44	4 41	4 37
16	4 46	4 45	4 41	4 38	4 34	4 31
17	4 41	4 38	4 35	4 32	4 28	4 23
18	4 36	4 33	4 29	4 26	4 22	4 18
19	4 30	4 27	4 23	4 19	4 15	4 11
20	4 25	4 21	4 17	4 13	4 9	4 4
21	4 19	4 15	4 11	4 6	4 2	3 57
22	4 13	4 9	4 4	4 0	3 55	3 50
23	4 7	4 3	3 58	3 53	3 47	3 42
24	4 1	3 56	3 51	3 46	3 40	3 34

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, against the Sun's Declination, will be found the Time of his visible half Duration above the Horizon, or Time of his Setting, correct by Refraction; then subtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Rising; double the Time of his Setting the

A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

Decl.	Lat. 55	Lat. 56	Lat. 57	Lat. 58	Lat. 59	Lat. 60
	h m	h m	h m	h m	h m	h m
0	6 4	6 4	6 4	6 4	6 4	6 4
1	6 9	6 10	6 10	6 10	6 11	6 11
2	6 15	6 16	6 16	6 17	6 17	6 18
3	6 21	6 22	6 22	6 23	6 24	6 25
4	6 27	6 28	6 29	6 30	6 31	6 32
5	6 32	6 34	6 35	6 36	6 38	6 39
6	6 38	6 40	6 41	6 43	6 44	6 46
7	6 44	6 46	6 48	6 49	6 51	6 53
8	6 50	6 52	6 54	6 56	6 58	7 1
9	6 56	6 58	7 1	7 3	7 5	7 8
10	7 2	7 5	7 7	7 10	7 13	7 16
11	7 8	7 10	7 14	7 17	7 20	7 23
12	7 15	7 18	7 21	7 24	7 27	7 31
13	7 21	7 24	7 28	7 31	7 35	7 39
14	7 28	7 31	7 35	7 39	7 43	7 47
15	7 34	7 37	7 42	7 46	7 51	7 56
16	7 41	7 45	7 49	7 54	7 59	8 4
17	7 48	7 52	7 57	8 1	8 7	8 13
18	7 55	8 0	8 5	8 10	8 16	8 22
19	8 2	8 7	8 13	8 19	8 25	8 32
20	8 10	8 15	8 21	8 28	8 35	8 42
21	8 18	8 24	8 30	8 37	8 45	8 53
22	8 26	8 32	8 39	8 47	8 55	9 4
23	8 34	8 41	8 49	8 57	9 6	9 16
24	8 43	8 51	8 59	9 8	9 18	9 29

the Sum will be the Length of the Day; and double the Time of his Rising, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, consist of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rising and Setting at

of his visible half Duration above the Horizon.

The Sun's Declination South.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h	m	h	m	h	m	h	m	h	m	h	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
10	5	5	5	3	5	1	4	59	4	56	4	53
11	4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13	4	47	4	44	4	41	4	38	4	34	4	30
14	4	41	4	37	4	34	4	30	4	27	4	23
15	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	24	4	20	4	15	4	11	4	6
17	4	21	4	17	4	12	4	8	4	3	3	57
18	4	14	4	9	4	5	4	0	3	54	3	48
19	4	7	4	2	3	56	3	51	3	45	3	39
20	3	59	3	54	3	49	3	43	3	36	3	29
21	3	52	3	46	3	40	3	34	3	27	3	19
22	3	44	3	38	3	31	3	24	3	17	3	9
23	3	36	3	29	3	23	3	15	3	9	2	57
24	3	27	3	20	3	13	3	5	2	45	2	45

at Aberdeen in Scotland, on the Longest Day; the Latitude of that Place is accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Degr. 28 Min. likewise North. By these you will find by the Table, that 5 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 49 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longest Day, whose Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Rising, &c.

A Table of the Sun's Right-Ascension in Time, the greatest

Decl.	♈			♉			♊			♋			♌			♍		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	0	0	0	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23
1	0	3	40	1	55	27	3	55	25	6	4	22	8	12	54	10	12	12
2	0	7	20	1	59	17	3	59	36	6	8	43	8	17	3	10	16	0
3	0	11	0	2	3	8	4	3	48	6	13	5	8	21	11	10	19	48
4	0	14	41	2	6	59	4	8	0	6	17	26	8	25	19	10	23	35
5	0	18	21	2	10	51	4	12	13	6	21	48	8	29	26	10	27	22
6	0	22	2	2	14	44	4	16	26	6	26	9	8	33	31	10	31	8
7	0	25	42	2	18	37	4	20	40	6	30	30	8	37	37	10	34	54
8	0	29	23	2	22	31	4	24	55	6	34	51	8	41	41	10	38	40
9	0	33	4	2	26	25	4	29	10	6	39	11	8	45	45	10	42	25
10	0	36	45	2	30	20	4	33	26	6	43	31	8	49	48	10	46	9
11	0	40	26	2	34	16	4	37	42	6	47	51	8	53	51	10	49	53
12	0	44	8	2	38	13	4	41	59	6	52	11	8	57	52	10	53	37
13	0	47	50	2	42	10	4	46	16	6	56	31	9	1	53	10	57	20
14	0	51	32	2	46	8	4	50	34	7	0	50	9	5	53	11	1	3
15	0	55	14	2	50	7	4	54	52	7	5	8	9	9	53	11	4	46
16	0	58	5	2	54	7	4	59	10	7	9	26	9	13	52	11	8	28
17	1	2	40	2	58	7	5	3	29	7	13	44	9	17	50	11	12	10
18	1	6	23	3	2	8	5	7	49	7	18	1	9	21	47	11	15	52
19	1	10	7	3	6	9	5	12	9	7	22	18	9	25	44	11	19	34
20	1	14	51	3	10	12	5	16	29	7	26	34	9	29	40	11	23	15
21	1	17	35	3	14	15	5	20	49	7	30	50	9	33	35	11	26	56
22	1	21	20	3	18	19	5	25	9	7	35	5	9	37	29	11	30	37
23	1	25	6	3	22	23	5	29	30	7	39	20	9	41	23	11	34	18
24	1	28	52	3	26	29	5	33	51	7	43	34	9	45	16	11	37	58
25	1	32	18	3	30	35	5	38	12	7	47	47	9	49	9	11	41	39
26	1	36	25	3	34	41	5	42	34	7	52	0	9	53	1	11	45	19
27	1	40	12	3	38	49	5	46	55	7	56	12	9	56	52	11	49	0
28	1	44	0	3	42	57	5	51	17	8	0	24	10	0	43	11	52	40
29	1	47	48	3	47	6	5	55	38	8	4	39	10	4	33	11	56	20
30	1	51	37	3	51	15	6	0	0	8	8	45	10	8	23	12	0	0

The time of the southing or meridian transits of the fixed stars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the southing of any of those stars, find the Sun's place in the Ephemeris, and with it take out of the above table his right ascension in time; this you may do by inspection to a minute, which will be sufficient for your present purpose. Then from the right-ascension of the star in pa. 46, subtract the right-ascension of the Sun, the remainder will be the estimate time of the star's southing, and will not differ from the true time above 2 or 3 minutes at most, which may be near enough for ordinary uses. But when great exactness is required, reduce the Sun's place to this estimate time, and with it find in the above table his right ascension to seconds, which being subtracted from that of the star, the remainder will be the

Obliquity of the Ecliptic being $23^{\circ} 28'$.

Degr.	α			μ			\uparrow			β			γ			δ		
	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s	h	m	s
0	12	0	0	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23
1	12	3	40	13	55	27	15	55	25	18	4	22	20	12	54	22	12	12
2	12	7	20	13	59	17	15	59	36	18	8	43	20	17	3	22	16	0
3	12	11	0	14	3	8	16	3	48	18	13	5	20	21	11	22	19	48
4	12	14	41	14	6	59	16	7	0	18	17	26	20	25	19	22	23	35
5	12	18	21	14	10	51	16	12	11	18	21	48	20	29	26	22	27	22
6	12	22	2	14	14	44	16	16	26	18	26	9	20	33	31	22	31	8
7	12	25	42	14	18	37	16	20	40	18	30	30	20	37	37	22	34	54
8	12	29	23	14	22	31	16	24	55	18	34	51	20	41	41	22	38	40
9	12	33	4	14	26	25	16	29	10	18	39	11	20	45	45	22	42	25
10	12	36	45	14	30	20	16	33	26	18	43	31	20	49	48	22	46	9
11	12	40	26	14	34	16	16	37	42	18	47	51	20	53	51	22	49	53
12	12	44	8	14	38	13	16	41	59	18	52	11	20	57	52	22	53	37
13	12	47	50	14	42	10	16	46	16	18	56	31	21	1	53	22	57	20
14	12	51	32	14	46	8	16	50	34	19	0	50	21	5	53	23	1	3
15	12	55	14	14	50	7	16	54	52	19	5	8	21	9	53	23	4	46
16	12	58	57	14	54	7	16	59	10	19	9	26	21	13	52	23	8	28
17	13	2	40	14	58	7	17	3	29	19	13	44	21	17	50	23	12	10
18	13	6	23	15	2	8	17	7	49	19	18	1	21	21	47	23	15	52
19	13	10	7	15	6	9	17	12	9	19	22	18	21	25	44	23	19	34
20	13	13	51	15	10	12	17	16	29	19	26	34	21	29	40	23	23	15
21	13	17	35	15	14	15	17	20	49	19	30	50	21	33	35	23	26	56
22	13	21	20	15	18	19	17	25	9	19	35	5	21	37	29	23	30	37
23	13	25	6	15	22	23	17	29	30	19	39	20	21	41	23	23	34	18
24	13	28	52	15	26	29	17	33	51	19	43	34	21	45	16	23	37	58
25	13	32	38	15	30	35	17	38	12	19	47	47	21	49	9	23	41	39
26	13	36	25	15	34	41	17	42	34	19	52	0	21	53	1	23	45	19
27	13	40	12	15	38	49	17	46	55	19	56	12	21	56	52	23	49	0
28	13	44	0	15	42	57	17	51	17	20	0	24	22	0	43	23	52	40
29	13	47	48	15	47	6	17	55	38	20	4	35	22	4	33	23	56	20
30	13	51	37	15	51	15	18	0	0	20	8	45	22	8	23	24	0	0

the true time of the star's culminating or southing. And if from the time of the star's southing you subtract the semidiurnal arc belonging to it, the remainder will be the time of the star's rising; and being added to it, the sum will be the time of its setting.

Annexed is an Ex. of SIRIUS for Jan. 31, 1792.

☉'s place at noon	$10^{\circ} 38'$	h	m	s
Rt. Asc. of Sirius	-	6	35	58
☉'s rt. asc. subtract	-	20	52	22
*'s estimate southing	-	9	43	36
☉'s rt. asc. at that time sub.	-	20	54	04
*'s true southing	-	9	41	58
Semid. arc sub. & add	-	4	36	58
*'s rising aftern.	-	5	5	00
*'s setting	-	14	18	50

A Table of the mean Right-Ascensions in time, Semidurnal-Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1790.

Names of the Stars	Ch.	Rt. Asc.			Declination			Semid. Ar.			M ^g	
		h	m	s	°	'	"	h	m	s		
Pole star, Alruccabah	α	0	48	57	88	11	34	n	sets	not	2	
Andromeda's girdle, Mirach	β	0	57	43	34	29	47	n	10	7	31	2
Andromeda's left foot, Almach	γ	1	51	10	41	18	41	n	sets	not	2	
Ram's following horn	α	1	55	18	22	27	43	n	8	9	35	2
Whale's jaw, Menkar	α	2	51	19	3	15	11	n	6	19	48	2
Medusa's head, Algol	β	2	54	32	40	7	41	n	sets	not	2	
Perseus's right side, Algenib	α	3	9	26	49	7	6	n	sets	not	2	
Brightest of the 7 stars	α	3	35	23	16	22	n	8	16	40	3	
Bull's south eye, Aldebaran	α	4	23	51	16	4	19	n	7	28	51	1
Auriga's left shoulder, Capella	α	5	1	11	45	46	57	n	sets	not	1	
Orion's left foot, Rigel	β	5	4	27	8	27	38	s	5	20	28	1
Bull's north horn	β	5	12	57	28	25	12	n	8	57	1	2
Orion's left shoulder, Bellatrix	γ	5	13	54	6	8	50	n	6	34	42	2
Orion's girdle	α	5	25	32	1	21	22	s	5	56	42	2
Orion's right shoulder, Betelgeuse	α	5	43	46	7	21	3	n	6	40	58	1
In the great Dog's mouth, Sirius	α	6	35	58	16	25	8	s	4	36	55	1
Head of the 1st Twin, Castor	α	7	21	11	32	19	57	n	9	38	21	1
In the left Dog's thigh, Procyon	α	7	28	21	5	46	33	n	6	32	50	1
Head of the 2d Twin, Pollux	β	7	32	30	28	31	19	n	8	58	13	2
Hydra's heart, Alphard	α	9	17	15	7	45	30	s	5	24	20	2
Lion's heart, Regulus	α	9	57	11	12	58	43	n	7	11	28	1
Great Bear, Lower Pointer	β	10	49	4	57	30	19	n	sets	not	2	
Great Bear, Upper Pointer	α	10	50	39	62	53	25	n	sets	not	2	
Lion's tail, Deneb	β	11	38	24	15	44	22	n	7	27	18	2
Great Bear, 1st in the tail, Alioth	α	12	45	5	57	7	0	n	sets	not	2	
Virgins's spike	α	13	14	10	10	3	38	s	5	12	20	1
Dragon's tail	α	13	58	42	65	20	53	n	sets	not	2	
Bootes, Arcturus	α	14	6	11	20	20	20	n	7	55	26	1
Libra, Southern Scale	α	14	39	22	15	9	30	s	4	44	23	2
Libra, Northern Scale	β	15	5	47	8	46	4	s	5	19	57	2
Bright star in the North Crown	α	15	25	49	27	25	35	n	8	48	36	2
Scorpion's heart, Antares	α	16	16	35	25	56	54	s	3	34	6	1
Hercules's head, Raf. Algethi	α	17	5	7	14	38	4	n	7	20	41	2
Head of Serpentarius	α	17	25	8	12	43	20	n	7	9	50	2
Dragon's head, Rastaben	γ	17	51	51	51	31	28	n	sets	not	2	
Bright star in the Harp, Iyra	α	18	29	45	38	35	39	n	sets	not	1	
Bright star in the Eagle, Atair	α	19	40	25	8	18	55	n	6	45	57	2
Mouth of south Fish, Fomalhaut	α	22	45	53	70	43	12	s	2	52	6	1
Pegasus's wing, Markab	α	22	54	15	14	4	11	n	7	17	10	2
Andromeda's head	α	23	57	29	27	55	38	n	8	52	19	2

A Table of the Longitudes, Latitudes, and Magnitudes of the most remarkable fixed Stars that the Moon can Eclipse, or make a near Appulse unto; exactly rectified to the beginning of the year 1790.

Con.	Ch.	Long.			Lat.			Magn.	Con.	Ch.	Long.			Lat.			Magn.
		°	'	"	°	'	"				°	'	"	°	'	"	
♈	♈	11	13	11	2	9	44	n 4	♈	♈	12	9	29	0	21	48	n 2
	♈	14	36	25	1	5	37	n 4	♈	♈	18	4	37	1	49	14	s 3
	♈	16	56	23	0	13	11	s 4	♈	♈	22	12	6	4	24	41	n 3
♉	♉	17	54	44	1	48	7	n 4	♉	♉	24	26	33	4	2	52	n 4
	♉	27	3	44	4	1	36	n 3	♉	♉	24	49	47	0	1	1	n 4
♊	♊	2	52	0	5	45	30	s 3	♊	♊	26	56	12	3	29	24	n 4
	♊	5	31	37	2	35	37	s 3	♊	♊	27	32	46	0	6	53	s 4
	♊	6	51	20	5	29	2	s 1	♊	♊	29	38	28	1	57	17	s 3
♋	♋	19	38	37	5	21	59	n 2	♋	♋	0	0	35	5	26	15	s 3
	♋	21	51	15	2	13	29	s 3	♋	♋	0	15	33	1	2	18	n 2
♌	♌	0	30	37	0	55	4	s 4	♌	♌	1	42	50	1	59	52	n 4
	♌	2	22	2	0	50	34	s 3	♌	♌	4	52	13	4	0	23	s 4
♍	♍	5	10	20	6	46	12	s 2	♍	♍	6	49	58	4	32	17	s 1
	♍	7	0	30	2	2	28	n 3	♍	♍	8	31	42	6	5	21	s 4
♎	♎	15	35	29	0	12	19	s 3	♎	♎	28	20	3	6	56	48	s 3
	♎	20	19	34	6	40	4	n 1	♎	♎	0	16	58	2	22	24	n 4
♏	♏	4	36	51	3	10	22	n 4	♏	♏	8	23	31	2	5	31	s 4
	♏	5	47	9	0	4	13	n 4	♏	♏	7	14	48	3	55	22	s 3
♐	♐	18	43	23	3	1	57	s 4	♐	♐	9	27	17	3	24	55	s 3
	♐	21	19	38	3	46	1	s 4	♐	♐	11	54	32	5	2	33	n 3
♑	♑	24	58	23	4	51	9	n 4	♑	♑	12	3	36	0	53	36	n 3
	♑	26	54	49	0	27	27	n 1	♑	♑	13	19	21	1	28	7	n 4
♒	♒	3	27	25	0	8	29	n 4	♒	♒	1	6	55	4	36	46	n 3
	♒	18	34	47	0	31	21	s 4	♒	♒	17	16	0	4	57	31	s 4
♓	♓	22	6	32	3	2	51	s 4	♓	♓	18	50	53	2	32	6	s 4
	♓	24	10	47	0	41	36	n 3	♓	♓	20	36	5	2	33	40	s 3
♈	♈	0	26	10	5	4	42	n 3	♈	♈	25	47	17	2	3	47	s 4
	♈	1	54	16	1	22	24	n 3	♈	♈	0	19	42	2	43	22	n 4
♉	♉	7	14	41	2	48	57	n 3	♉	♉	8	38	43	0	22	57	s 4
	♉	20	54	5	2	2	11	s 1	♉	♉	14	12	30	1	2	8	s 4

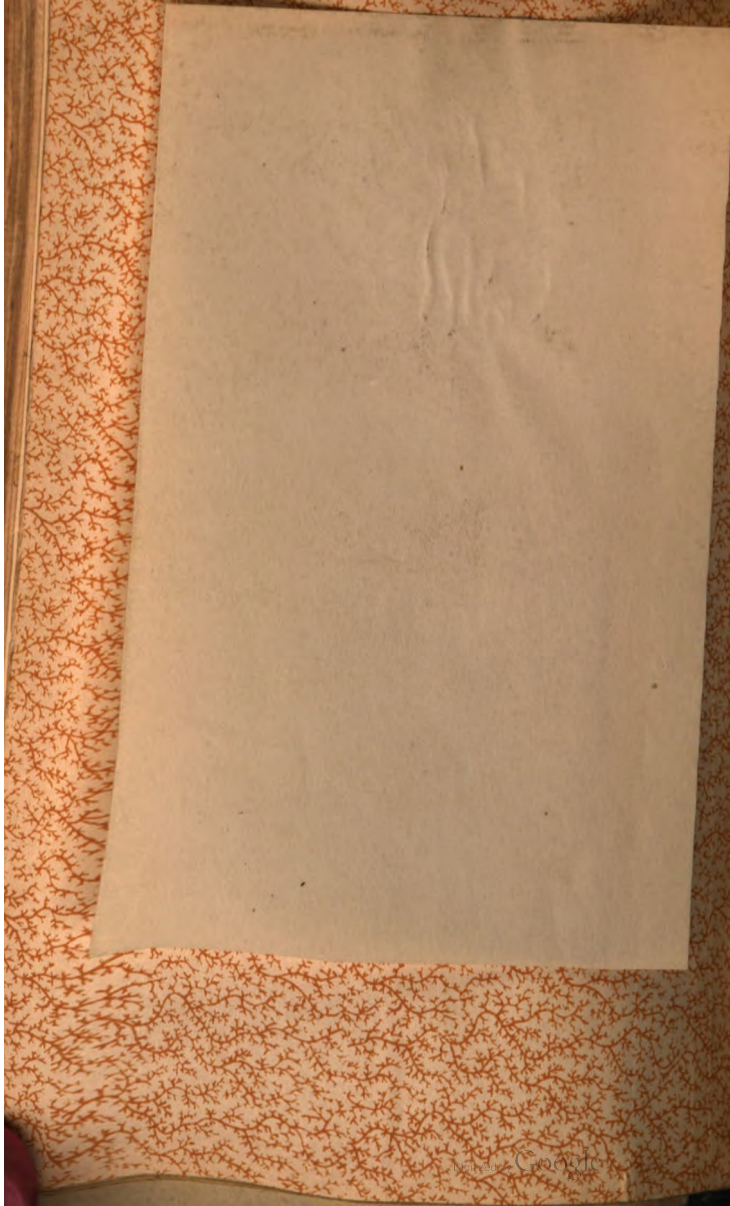
This table shewing the mean longitudes of 60 stars to the beginning of the year 1790, their mean longitudes for any other time may be found at 15 seconds be added for each succeeding, and subtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the first star ♈♈, or ♈♈ piscum, for Feb. 15, 1792, or 2 years and one eighth after the tabular time; here $2\frac{1}{8}$ times $50\frac{1}{2}$ sec. make $1^\circ 47'$, which being added to the tabular longitude, gives $11^\circ 14' 58''$ for the longitude required at the given time. — The latitudes vary not.

Amsterdam, River	21	21	21	21	Amsterdam, River	21	21	21	21
Antwerp, River	21	21	21	21	Antwerp, River	21	21	21	21
Brussels, River	21	21	21	21	Brussels, River	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21	21	Colon	21	21	21	21
London, The	21	21	21	21	London, The	21	21	21	21
Lyons, River	21	21	21	21	Lyons, River	21	21	21	21
Manila	21	21	21	21	Manila	21	21	21	21
Medan	21	21	21	21	Medan	21	21	21	21
Penang	21	21	21	21	Penang	21	21	21	21
Rangoon	21	21	21	21	Rangoon	21	21	21	21
Singapore	21	21	21	21	Singapore	21	21	21	21
Sourabaya	21	21	21	21	Sourabaya	21	21	21	21
Tientsin	21	21	21	21	Tientsin	21	21	21	21
Yokohama	21	21	21	21	Yokohama	21	21	21	21
Aden	21	21	21	21	Aden	21	21	21	21
Bombay	21	21	21	21	Bombay	21	21	21	21
Calcutta	21	21	21	21	Calcutta	21	21	21	21
Canton	21	21	21	21	Canton	21	21	21	21
Cebu	21	21	21	21	Cebu	21	21	21	21
Colon	21	21	21						

F I N I S.

The Latitudes and Longitudes of Ninety Places.

	Lat. ° ' "	Long. ° ' "		Lat. ° ' "	Long. ° ' "
Alexandria, Egypt	31 11 n	30 17 e	Ispahan	32 25 n	52 55 e
Amsterdam, Hol.	52 23 n	4 52 e	Land's end	50 6 n	5 50 w
Archangel, Ruf.	64 34 n	38 30 e	Leghorn	43 33 n	10 25 e
Athens	37 40 n	23 52 e	Leostoff	52 38 n	1 54 e
Babelmandel	12 50 n	43 50 e	Liverpool	53 22 n	3 10 w
Batavia	6 12 s	106 45 e	Lima	12 1 s	76 50 w
Bengal	22 0 n	92 45 e	Lisbon	38 42 n	9 4 w
Berlin	52 33 n	13 16 e	Lizard	49 57 n	5 21 w
Bombay Isle	19 42 n	73 3 e	London	51 31 n	0 0
Boston, Amer.	42 25 n	70 37 w	Madras	13 8 n	80 7 e
Breslau	51 3 n	17 13 e	Madrid	40 25 n	3 45 w
Brest	48 23 n	4 30 w	Manila	14 30 n	120 25 e
Brissot	51 28 n	2 30 w	Marseilles	43 18 n	5 21 e
Buenos Ayres	34 35 s	58 0 w	Mexico	19 54 n	100 5 w
Cadiz	36 31 n	6 7 w	Mississipi, mouth	29 0 n	89 17 w
Calais	50 58 n	1 51 e	Moscow	55 25 n	37 51 e
Cairo, Egypt	30 2 n	31 26 e	Naples	40 51 n	14 19 e
Cambridge	52 13 n	0 4 e	Newcastle	55 0 n	1 18 w
Cantaria Islands	28 1 n	15 0 w	Oporto	40 53 n	8 35 w
Canton	23 8 n	113 2 e	Orkney I. northend	59 24 n	3 23 w
Cape of Goodhope	34 29 s	18 23 e	Oxford	51 45 n	1 16 w
Cape Horn	55 59 s	67 26 w	Paris	48 50 n	2 25 e
Carthegena	10 27 n	75 26 w	Pekin	39 55 n	116 22 e
Charles Town Am.	33 22 s	79 50 w	Petersburg	59 56 n	30 19 e
Constantinople	41 0 n	28 53 e	Philadelphia	39 57 n	75 18 w
Copenhagen	55 41 n	12 50 e	Plymouth	50 24 n	4 15 w
Corinth	37 30 n	23 0 e	Port Mahon	39 51 n	3 53 e
Corke	51 54 n	8 30 w	Port Royal, Jam.	17 40 n	76 37 w
Dantzic	54 22 n	18 36 e	Portsmouth	50 48 n	1 1 w
Dover	51 7 n	1 19 e	Prague	50 5 n	14 15 e
Dublin	53 12 n	6 55 w	Quebec	46 55 n	71 12 w
Edinburgh	55 58 n	3 1 w	Rome	41 54 n	12 32 e
Ferro, Isle	27 48 n	18 6 w	Scilly Isles	50 0 n	6 45 w
Finisterre, Cape	42 57 n	9 36 w	Smyrna	38 28 n	27 25 e
Genoa	44 25 n	8 41 e	Stockholm	59 22 n	18 12 e
Gibraltar	36 5 n	4 46 w	Syracuse	37 4 n	15 20 e
Glasgow	55 52 n	4 5 w	Tangier	35 55 n	5 45 w
Goa	15 31 n	73 50 e	Teneriff	28 16 n	16 32 w
Gottingen	51 32 n	9 58 e	Tunis	36 47 n	10 16 e
Greenwich	51 29 n	0 5 e	Turin	45 5 n	7 45 e
Haelpit's Head.	79 55 n	12 0 e	Venice	45 27 n	12 24 e
Halifax, America	44 46 n	63 20 w	Verd, Cape	14 47 n	17 28 w
Havana	23 12 n	81 21 w	Vienna	48 11 n	16 28 e
Helena, I. St.	15 55 s	5 49 w	Upsal	59 52 n	17 43 e
Jerusalem	31 50 n	35 25 e	Uraniberg	55 54 n	12 52 e



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